



Columbia University
Bulletin of Information

BARNARD COLLEGE

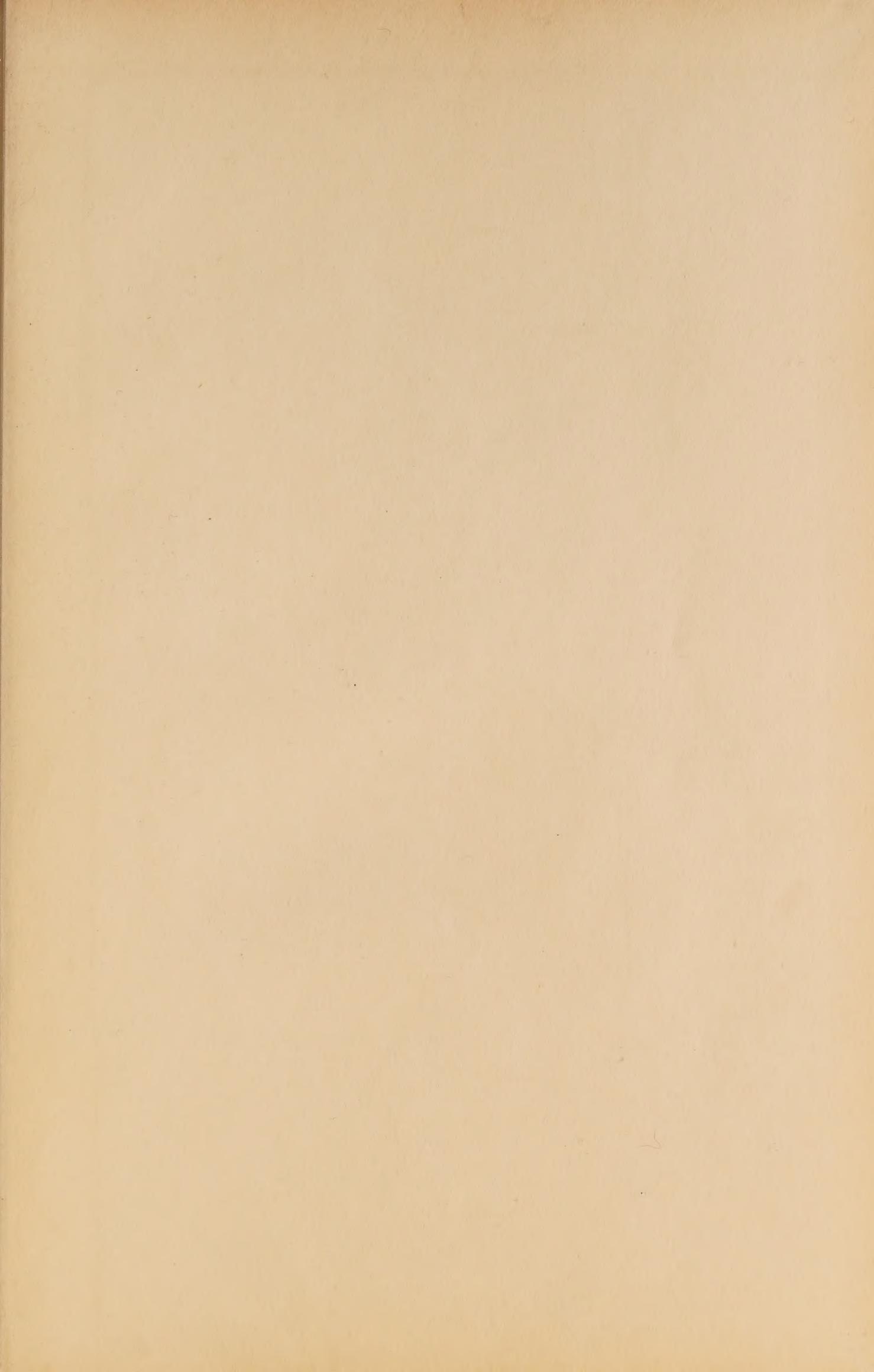
ANNOUNCEMENT

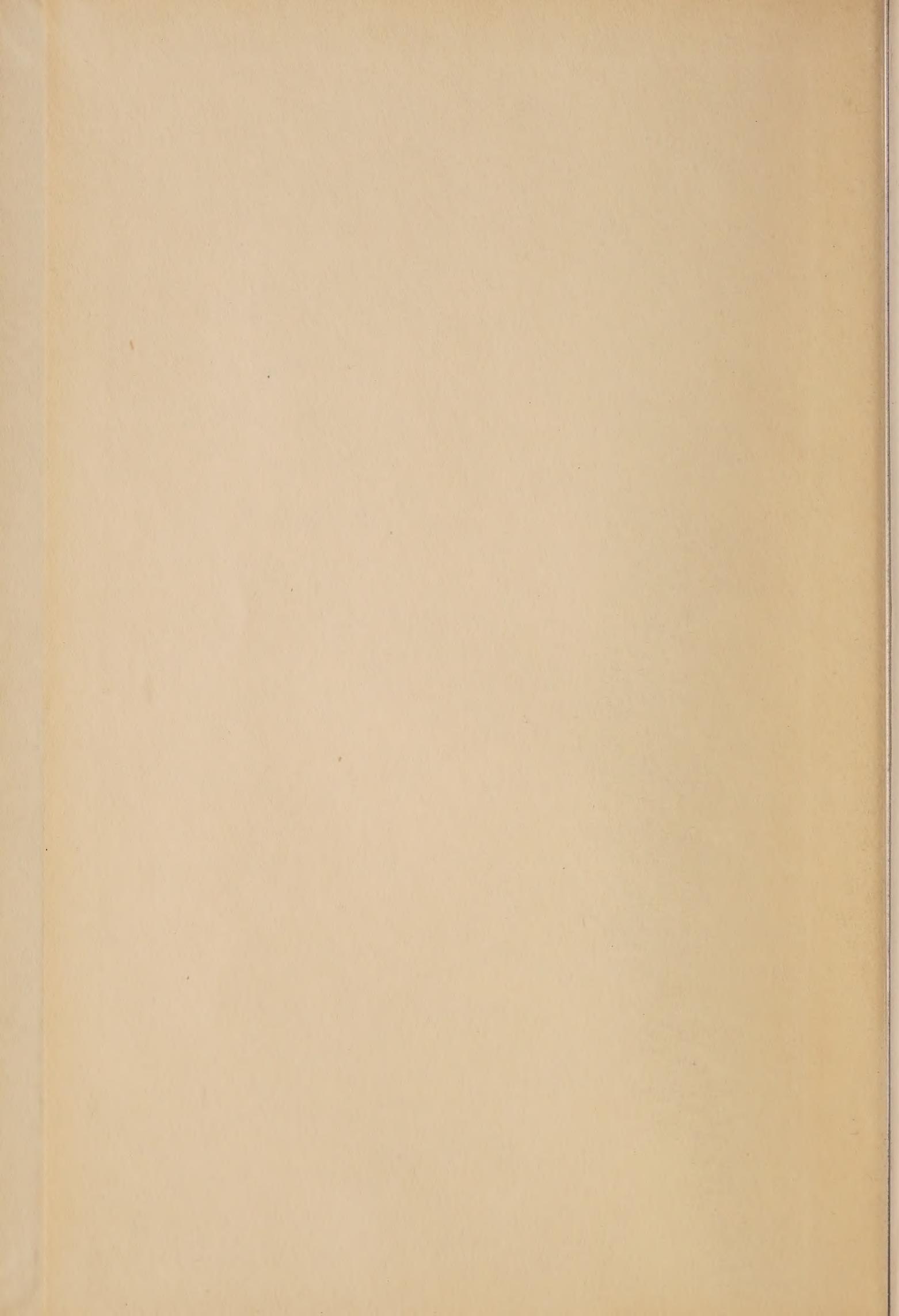
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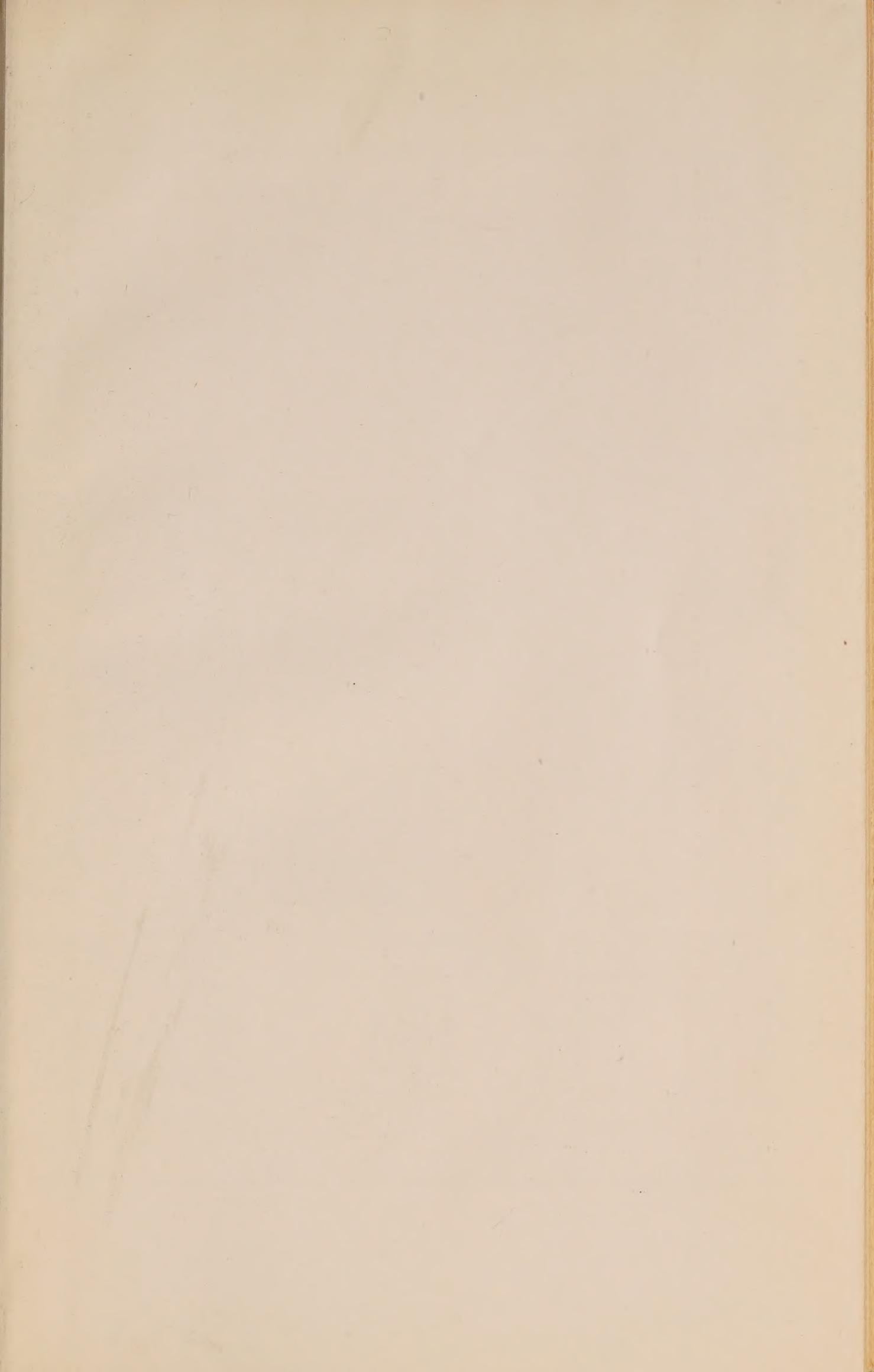
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1930-31

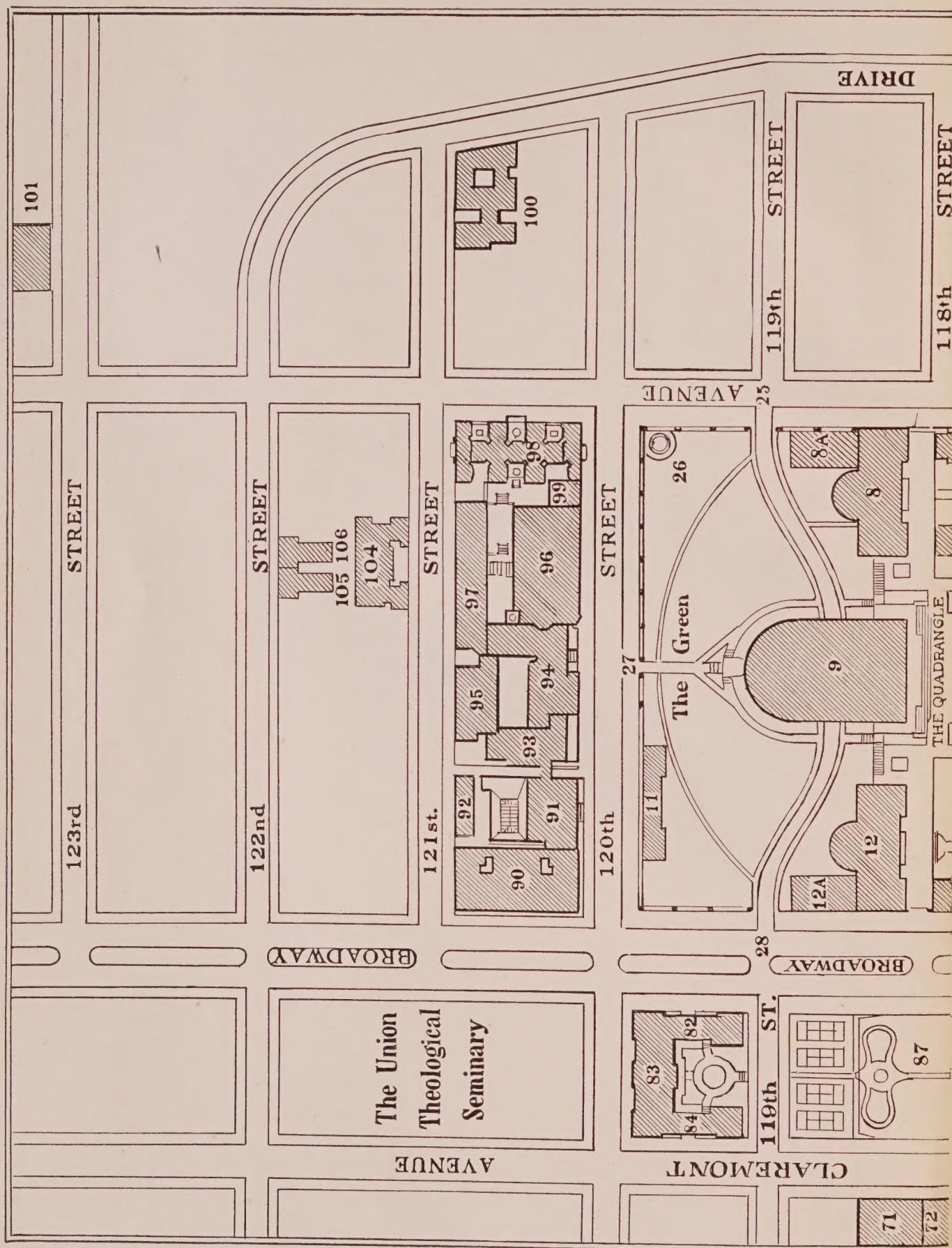
BARNARD COLLEGE
ARCHIVES

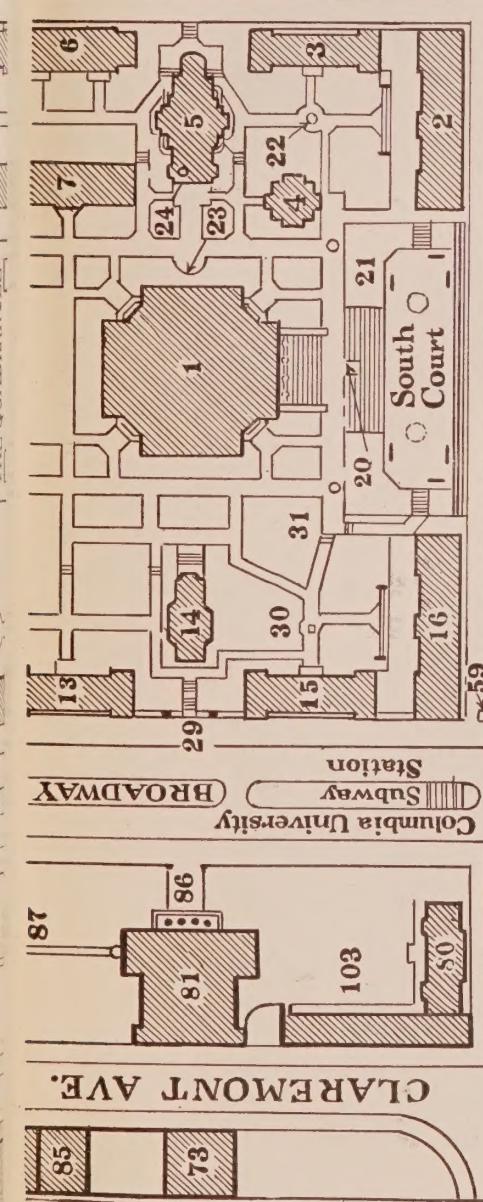




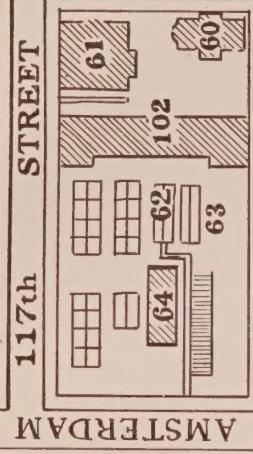


PLAN OF BUILDINGS AND GROUNDS

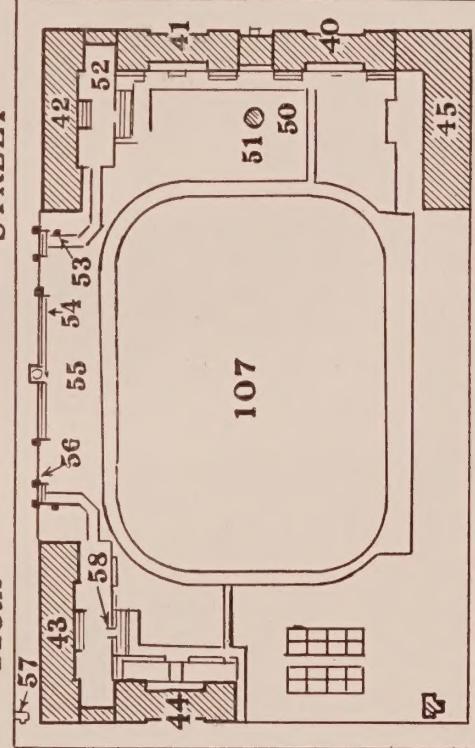




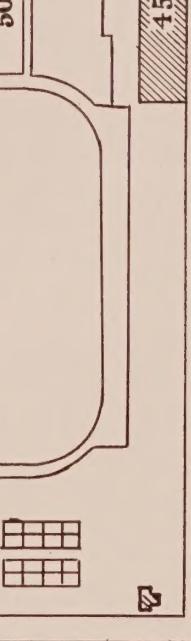
MORNINGSIDE



116th STREET



115th STREET



SOUTH FIELD

114th STREET

114th STREET



114th STREET



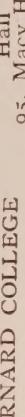
114th STREET



114th STREET



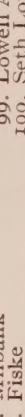
114th STREET



114th STREET



114th STREET



114th STREET



114th STREET



114th STREET



114th STREET



QUADRANGLE

1. Library

2. Kent

3. Philosophy

4. East

5. St. Paul's Chapel

6. Fayerweather

7. Avery

8. Schermerhorn Extension

9. University

11. Physics

12. Havemeyer

12a Chandler Laboratories

13. Engineering

14. Earl

15. Mines

16. School of Business

20. Statue of Alma Mater

21. Class of 1881 Flag Staff

22. Class of 1887 Well Head

23. Class of 1886 Exedra

24. Class of '93 Chapel Bell

25. Class of 1888 Gate

26. Statue of Great God Pan

27. Class of 1882 Gates

28. Mapes Gates

29. Class of 1891 Gate

30. Meunier's Hammerman

31. Lafayette Post Flag Pole

32. Class of 1890 Pylon

33. Jefferson Statue

34. Class of 1900 Pylon

35. Class of 1884 and 1899 Tablet

36. Class of 1885 Sun Dial

37. Class of 1895 Mines Class Gift

38. Deutches Haus

39. South Field

40. Livingston

EAST FIELD

41. Hartley

42. Hamilton

43. Journalism

44. Furnald

45. John Jay

46. 1906 Clock

47. Crocker Institute

48. Casa Italiana

49. Home Study

50. Dean Hawkes

51. Chaplain Knox

52. Maison Française

53. Rives Memorial Steps

54. Classes of 1885 Sun Dial

55. Classes of 1884 and 1899 Tablet

56. Classes of 1884 and 1899 Tablet

57. Class of 1890 Pylon

58. Jefferson Statue

59. Class of 1900 Pylon

60. Hartley Jen-kins Geer Memorial

61. Seth Low Gates

62. Deutches Haus

63. Milbank Quadrangle

64. Lowell Annex

65. Hartley Jen-kins Geer Memorial

66. Seth Low School and Research Building

67. Horace Mann School

68. Thompson Hall

69. Annex

70. Milbank Chapel

71. Main Teachers College

72. Mac Hall

73. Russell Hall

74. Whittier Hall

75. Lowell Annex

CLAREMONT AVENUE

71. DeWitt Clinton

72. Morris

73. Tompkins

74. Charles King

75. Barnard

76. Brinckenhoff

77. Milbank

78. Heilen

79. Fiske

80. Brooks

81. Barnard

82. Milbank

83. Lowell Annex

84. Hartley Jen-kins Geer Memorial

85. Seth Low School and Research Building

86. Bancroft Hall

87. Grant Hall

88. Sarasota Hall

BARNARD HALL, BARNARD COLLEGE



Columbia University
in the City of New York

BARNARD COLLEGE

1930-1931



MORNINGSIDE HEIGHTS
NEW YORK

FORM OF BEQUEST

To Barnard College I give and bequeath the sum of \$ for
the uses and purposes of said Corporation.

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(Alumnae Trustee 1929-1933)

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1930

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[Any donor of not less than \$5,000 will be enrolled among the founders of Barnard College]

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Estate of
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Estate of
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* Deceased.

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¹ NELSON GLENN McCREA, Ph.D., Litt.D.

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LOUIS AUGUSTE LOISEAUX, B.S.	<i>Associate Professor of French</i>
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EDWARD KASNER, Ph.D..	<i>Professor of Mathematics</i>
WILLIAM P. MONTAGUE, Ph.D..	<i>Professor of Philosophy</i>
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JOHN LAWRENCE GERIG, Ph.D..	<i>Professor of Celtic</i>
³ LA RUE VAN HOOK, Ph.D.	<i>Professor of Greek and Latin</i>
CHARLES SEARS BALDWIN, Ph.D., Litt.D.	

Professor of Rhetoric and English Composition

² ROBERT E. CHADDOCK, Ph.D.	<i>Professor of Statistics</i>
DAVID SAVILLE MUZZEY, Ph.D.	<i>Professor of History</i>
GERTRUDE M. HIRST, Ph.D.	<i>Associate Professor of Greek and Latin</i>
IDA H. OGILVIE, Ph.D.	<i>Associate Professor of Geology</i>
HENRI F. MULLER, B. ès L., Ph.D.	<i>Professor of Romance Philology</i>
HARRY L. HOLLINGWORTH, Ph.D..	<i>Professor of Psychology</i>
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EDWARD MEAD EARLE, Ph.D.	<i>Associate Professor of History</i>
² RAYMOND C. MOLEY, Ph.D.	<i>Professor of Public Law</i>

¹ Absent on leave, Winter Session.

² Absent on leave, Spring Session.

³ Absent on leave, 1930-1931.

CAROLINA MARCIAL-DORADO, A.M.	<i>Assistant Professor of Spanish</i>
GRACE LANGFORD, S.B.	<i>Assistant Professor of Physics</i>
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Associate Professor of Music on the Joline Foundation

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GABRIELA MISTRAL	<i>Visiting Lecturer in Spanish</i>

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MARION LAWRENCE, A.M.	<i>Instructor in Fine Arts</i>
FRANÇOISE NOLLET, B. ès L., A.M.	<i>Instructor in French</i>

¹ Absent on leave, 1930-1931.

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MARY JO COBB, A.B.	<i>Assistant in Botany</i>
HELEN PALLISTER, A.B.	<i>Assistant in Psychology</i>
MARIAN H. CHURCHILL, A.B.	<i>Assistant in Government</i>

Other Officers of the University Who Give Instruction in Barnard College

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LOUIS HERBERT GRAY, Ph.D.	<i>Professor of Oriental Languages</i>
H. THEODERIC WESTBROOK, A.M.	<i>Instructor in Greek and Latin</i>
CHARLES DOERSAM, F.A.G.O.	<i>Instructor in Organ</i>
HERBERT DITTLER	<i>Associate in Music</i>
BASSETT W. HOUGH	<i>Associate in Music</i>

¹ Absent on leave, Winter Session.

Barnard Representatives on the University Council

The DEAN (*ex officio*), Professor MALTBY (serving until June, 1930), and Professor BALDWIN (serving until June, 1932).

Barnard Representatives on the University Committee on Admissions

Professor JONES, *chairman*, and the DEAN (*ex officio*).

MEMBERS OF BARNARD SUB-COMMITTEE: Professors BRAUN, HUTTMAN, and LATHAM.

Standing Committees of the Faculty

Committee on Instruction: The DEAN, *chairman*, Professors MONTAGUE, REIMER, VAN HOOK, GREGORY, PUCKETT, MACIVER, FAIRCHILD, and SINNOTT.

Committee on Scholarships: The DEAN, *chairman*, Professors HIRST, HOWARD, BAKER, and MISS WEEKS.

Committee on Honors: The DEAN, *chairman*, Professors HOWARD, HUTCHINSON, LE DUC, MACIVER, and SINNOTT.

Committee on Student Affairs: The DEAN, *chairman*, Professors BRAUN, LOWTHER, FAIRCHILD, STURTEVANT, and MISS WEEKS.

Committee on Students' Programs: Professor GREGORY, *chairman*, Professors OGILVIE, PUCKETT, REICHARD, CAREY, GREET, and GOODALE, DR. WARE, MISSES HOLZWASSER and YOUNG, and MR. SAVELLE, — — —, and the DEAN (*ex officio*).

Committee on Schedule of Hours: Professor GREGORY, *chairman*, Professors MULLINS and LOWTHER, and the DEAN (*ex officio*).

Committee on Transfers: Professor LOWTHER, *chairman*, Professors KELLER, PARKHURST, and SMITH, and the DEAN (*ex officio*).

Committee on Women University Undergraduates: The DEAN, *chairman*, Professors HUTTMAN, LANGFORD, and LE DUC, the DIRECTOR OF UNIVERSITY EXTENSION and the DIRECTOR OF THE UNIVERSITY COMMITTEE ON ADMISSIONS (*ex officiis*).

Officers of Administration

EMILY G. LAMBERT, A.B.	Bursar
ANNA E. H. MEYER, A.B.	Registrar
KATHARINE S. DOTY, A.M.	Assistant to the Dean — Occupation Bureau
MABEL FOOTE WEEKS, A.B.	Assistant to the Dean — Social Affairs
HELEN P. ABBOTT, A.M.	Assistant to the Dean — Residence Halls
MARY V. LIBBY, A.B.	Assistant to the Dean — Admissions, Information
BEATRICE LOWNDES EARLE, A.B. . .	Assistant to the Dean — Outside Contacts
BERTHA L. ROCKWELL	Librarian of Barnard College
JOHN J. SWAN, M.E.	Comptroller of Barnard College
GULIELMA F. ALSOP, M.D..	College Physician
FREDERICK A. GOETZE, M.Sc.	Treasurer of the University
REV. RAYMOND C. KNOX, S.T.D.	Chaplain of the University
WILLIAM H. McCASTLINE, M.D.	University Medical Officer

Barnard College

GENERAL STATEMENT

Columbia University. — Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, 'for the Instruction of youth in the Learned Languages, and the Liberal Arts and Sciences.' The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the corporate title was changed to Columbia University in the City of New York.

The University at the present time consists of Columbia College, the undergraduate college of liberal arts for men, which offers a program of studies leading to the degree of Bachelor of Arts; the School of Law, with courses leading to the degrees of Bachelor and Master of Laws and Doctor of Law (Doctor Juris); the College of Physicians and Surgeons, with courses leading to the degree of Doctor of Medicine; the School of Engineering, with courses leading to the several engineering degrees, and the degree of Master of Science; the School of Architecture, with courses leading to the degrees of Bachelor of Architecture and Master of Science; the School of Journalism, with courses leading to the degrees of Bachelor of Literature and Master of Science; the School of Business, with courses leading to the degrees of Bachelor and Master of Science; the School of Dental and Oral Surgery, with courses leading to the degrees of Bachelor of Science and Doctor of Dental Surgery; the School of Library Service, with courses leading to the degrees of Bachelor of Science and Master of Science; Seth Low Junior College offering two years of collegiate work in preparation for admission to professional schools or to more advanced work in liberal arts and sciences in Columbia University; the non-professional graduate Faculties of Political Science, Philosophy, and Pure Science, with courses leading to the degrees of Master of Arts and Doctor of Philosophy. In addition to these Schools and Faculties, the University includes the independent corporations of Barnard College, the undergraduate college for women, with a course leading to the degree of Bachelor of Arts; Teachers College, including the Faculties of Education and Practical Arts, with courses leading to the degrees of Bachelor of Science, Master of Arts, and Master of Science; and the New York College of Pharmacy, with courses leading to the degrees of Pharmaceutical Chemist, Bachelor of Science, and Doctor of Pharmacy; St. Stephen's College, Annandale, New York, (1928), an undergraduate college for men with courses leading to the degree of Bachelor of Arts; and the Union Theological Seminary (1928), whose faculty conducts certain University work leading to the degree of Master of Arts.

The University maintains three sessions during the year: the Winter Session, beginning the last Wednesday of September and ending the first Tuesday of February; the Spring Session, beginning the first Wednesday of February and ending the second Wednesday of June; and the Summer Session of six weeks' duration, beginning immediately after July 4. Through its system of University Extension the opportunity is offered to men and women to pursue subjects

included in a liberal education, and to take courses toward a diploma or an academic degree; Home Study courses are also offered to persons who are unable to take work in residence.

Founding of Barnard College. — Barnard is the undergraduate college for women of Columbia University. In 1889 a group of men and women who wished to provide for women in New York City a college education fully equal to that offered to men succeeded in obtaining the sanction of the Trustees of Columbia for the establishment of an affiliated woman's college. A charter was granted by the State of New York, and promises of subscriptions for the support of the college during the first four years of its existence were secured. Because President Frederick A. P. Barnard of Columbia College had for many years been an ardent advocate of the admission of women to Columbia, the founders of the new college gave it his name. With seven instructors selected from the teaching staff of Columbia and with fourteen regular and twenty-two special students, Barnard opened in the fall of 1889 in a rented house at 343 Madison Avenue.

Relation to the University. — In 1900 when the growth of the College had made inappropriate the original informal arrangement for instruction, an agreement was made between the Trustees of Columbia College and of Barnard College by which Barnard was incorporated in the educational system of the University. By the provisions of this agreement, the President of the University is *ex officio* President of Barnard College. Barnard professors are appointed by the University on the nomination of the Dean with the approval of the President and the Trustees, and rank as professors of the University; in exchange for instruction given by them at Columbia, certain Columbia instructors give courses at Barnard. The graduates of Barnard receive their degrees from Columbia, and these degrees are maintained as of equal value with corresponding degrees conferred upon the graduates of Columbia College. The University library is open to women on the same terms as to men. Various opportunities in other schools of the University have also, through the relation of Barnard College to Columbia, been opened to Barnard students who wish to avail themselves of the advantage of professional training. On the other hand, Barnard has its separate corporate and financial organization, with its own Board of Trustees. It retains its own internal administration, conducted by the Dean, who is appointed by the President with the advice and consent of the Trustees of Barnard. Its courses are determined and administered by its own Faculty, consisting of all professors who give instruction at Barnard.

Buildings and Grounds. — Since 1897 Barnard has occupied the land on Broadway between 119th and 120th Streets, just west of the main buildings of the University. In 1903 Milbank Quadrangle, extending from 119th to 116th Street, was added through the gift of Mrs. A. A. Anderson. Milbank Hall and Brinckerhoff Hall, erected in 1896, the gifts respectively of Mrs. Anderson and Mrs. Van Wyck Brinckerhoff, and Fiske Hall, erected in 1898, the gift of Mrs. Josiah M. Fiske, are three adjoining buildings on 119th Street; they contain the administrative offices, lecture rooms, and laboratories. Brooks Hall, a dormitory at the southern end of the Quadrangle on 116th Street, was erected in 1907. A new residence hall adjoining Brooks Hall and known as Hewitt Hall was completed in 1925. Barnard Hall, given by Mr. Jacob H. Schiff and erected in 1917, is on Milbank Quadrangle near 117th Street; it contains the

gymnasium, swimming-pool, lunch-room, reading-room, doctors' and nurses' offices, and rooms for student organizations.

Financial Statement. — The College owns equipment, buildings, and grounds of an estimated value of over \$3,700,000, and holds productive funds providing a net income of about \$180,000.

Course of Study. — Barnard College offers to women a liberal course of undergraduate instruction of four years' duration, leading to the degree of Bachelor of Arts.

Students who wish two years only of collegiate work, in preparation for professional schools, may enter under the same conditions as those intending to complete the requirements for the Bachelor of Arts degree, and take, during the freshman and sophomore years, a program modified to meet the requirements of the professional school to which the transfer is to be made.

Under certain circumstances, Barnard students in the Bachelor of Arts course may, after three full years of work at Barnard College, receive permission to substitute the first year of an approved professional school for the senior year at college, and still obtain the Bachelor of Arts degree.

Academic Discipline. — The admission, continuance upon the rolls, and graduation of any student are subject to the full disciplinary power of the University authorities, as prescribed by the statutes of the University.

The College makes all possible provision for safeguarding the health of its students and it reserves the right to require the withdrawal of any student whose health, in the opinion of the College Physician, does not warrant her continuing her college course.

Residence. — All students not residing with their parents are required to live in Brooks Hall or Hewitt Hall unless for reasons of weight they receive special permission to live with relatives. Applications for such permission, accompanied by letters of approval from parents or guardians, should be made before August 1 to the Assistant to the Dean in charge of Social Affairs. Reservations for rooms outside, made without permission, will not be approved.

ADMISSION

To Columbia University in General. — A student accepted and registered by the proper authorities as having fulfilled the preliminary qualifications for candidacy for a degree, certificate of proficiency, or diploma, is enrolled as a matriculated student of the University. A period of regular attendance upon all stated academic exercises amounting to at least one academic year must be completed by every candidate for a degree.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance, should make application to the appropriate authority for equitable relief.

A student not enrolled as a matriculated student may enter the University as a non-matriculated student, permitted to attend such courses of instruction as he or she may be qualified to take, but is not a candidate for a degree, certificate of proficiency, or diploma. Such students are expected to conform to the

same standards of attendance and scholarship as are required of matriculated students. Non-matriculated students may receive a formal statement of the satisfactory completion of any course. (See page 31.)

Admission to the several schools and colleges of Columbia University presupposes certain educational qualifications, but the possession of these qualifications does not entitle a candidate to admission unless his or her character and personality are acceptable to the University and unless he or she is physically fit to do the work which he or she desires to undertake. Satisfaction of the minimum requirements for admission to a school does not insure admission, particularly if the school be crowded.

To Barnard College in Particular. — Admission as a matriculated student to Barnard College is obtained by examination, or by psychological test, except that in suitable cases the certified credentials of degree-granting institutions may be accepted for the subjects or parts of subjects which they cover.

Except for reasons of weight, candidates for admission to the freshman class must be at least fifteen years of age at the time of matriculation; candidates for admission to advanced standing must be correspondingly older. Every candidate must, before admission, present a certificate of good moral character from her last teacher, or from some properly qualified citizen. Students from other colleges or universities must present certificates of honorable dismissal.

Information regarding admission may be obtained in person, or by mail, or telephone from the Secretary to the Committee on Admissions of Barnard College.

Preliminary Application for Admission. — Each student who plans to enter the College should file a preliminary application for admission with the Secretary to the Committee on Admissions at as early a date as possible. Other things being equal, early applications will receive the preference.

ADMISSION TO THE FRESHMAN CLASS

Subjects Required for Admission

The requirement for admission to the freshman class is proficiency in fifteen units of secondary school subjects, of which some are prescribed and the remainder elective, as specified below. The unit ordinarily implies the study of a subject for a time equivalent to five periods a week for one year. The term "elementary" as applied to a language implies two years study of that language.

Candidates must offer:	COUNTING IN UNITS
1 English,	3
Mathematics, elementary	3
Foreign languages, of which at least 3 must be in one language . . .	5
Elective subjects to be selected from those accepted for admission, as listed below.	4
	—
	15

¹ The ordinary four-year secondary school course in English counts as three units.

Elective Subjects

Candidates may offer any of the following subjects, not included among their prescribed subjects, without other restrictions than that to offer an intermediate or advanced subject will involve offering, either at the same time or earlier, the corresponding elementary subject:

	COUNTING IN UNITS
Bible	1
Biology (Advanced)	1
Botany	1
Chemistry	1
Drawing	1
French, elementary	2
French, intermediate	1
French, advanced	1
German, elementary	2
German, intermediate	1
German, advanced	1
Greek, elementary	<i>2 or 3</i>
History, elementary	<i>1, 2, 3, or 4</i>
Italian, elementary	2
Italian, intermediate	<i>2 or 3</i>
Latin, elementary	2
Mathematics, advanced (College)	$\frac{1}{2}$, 1, or $1\frac{1}{2}$
¹ Musical Appreciation or Harmony	1
Physics	1
Physiography	1
Spanish, elementary	2
Spanish, intermediate	1
Spanish, advanced	1
Zoölogy	1

² Plans of Admission

Three plans of admission are open to properly qualified candidates for admission to Barnard College. The first employs a psychological examination; the second employs examinations in all 15 of the units offered; and the third, four comprehensive examinations. In all plans it is necessary to submit a record of preparatory work. Blanks for this record may be obtained from the Secretary to the Committee on Admissions.

¹ An examination in this subject will be given in September, but not in June.

² Candidates who find that examinations are fixed for days set apart for religious purposes by the church to which they belong, and who are prevented by conscientious scruples from attending such examinations, are requested to make application to the Committee on Admissions through the Registrar of Barnard College for equitable relief. It should be noted, however, that in case alternative opportunities for taking a given examination are statedly offered, as for instance the June and September entrance examinations, such students are expected to present themselves on the day which is not set apart as a holy day.

I. Psychological Test

A candidate may not enter by this plan if she has failed her entrance examinations to any college.

By this plan, a candidate's qualifications for admission will be based upon the following four considerations:

A. School Record.

In considering this, the standing of the school, the excellence of the candidate's work, and the subjects studied will be vital. She must have completed in an acceptable secondary school a course extending over at least four years, and covering the subjects required for admission. (See page 17.)

The candidate must have been graduated and must be recommended by her principal or headmistress. In schools in New York State in which Regents' examinations are given, the candidate must have passed the Regents' examinations with satisfactory grades.

In determining whether or not a school is satisfactory the procedure to be followed will be this:

Schools within the territory of the New England Certificate Board will be acceptable, if on the accepted list of that board.

Similarly, schools within the territory of the Association of Colleges and Secondary Schools of the Southern States or of the North Central Association of Colleges and Secondary Schools will be regarded as acceptable, if on the approved list of either of these associations.

Schools outside the territory of any of these bodies will be requested to submit the names of leading colleges on whose accepted lists they do appear, and their acceptability will be determined for the time being upon the basis thus furnished.

In case any school recommends students whose records prove to be consistently below the standard, the records of that school will no longer be considered satisfactory.

If a student's work in college should show her deficient in any entrance subject in which she has received credit, her credit in that subject will be cancelled.

B. Character and Promise.

The candidate's qualities, mental and moral, as shown by her record in and out of school and the recommendations which she can submit will be important factors. Whenever possible, a personal interview will be required. In cases in which this is not possible a photograph must be submitted and the names of at least three responsible citizens must be given as references. *The Committee on Admissions is able to give little if any weight to letters of recommendation from persons outside the school of the candidate, unless asked for by the college.*

C. A Health Record.

This will include a health history and the results of a health examination. These must be submitted on blanks furnished by the Secretary to the Committee on Admissions and approved by the Barnard College Physician before a student will be permitted to register.

D. A Psychological Examination.

This examination is designed to select the students qualified by general ability to profit by a college course. It is not an examination in the subject matter of the secondary school course. It is to test common sense and general fitness for college work rather than preparation in specific subjects.

The examination will be given June 21, 1930, at 9 a.m., for candidates for admission in the following September. It will be given also on September 16 at 2 p.m., and on January 24, 1931, at 9 a.m. The psychological examination in June will be given by the College Entrance Examination Board under the name of the "Scholastic Aptitude Test."

It should be clearly understood that the satisfaction of any one or two of these requirements does not entitle the candidate to admission. Evidence on all of these points is considered by the Committee on Admissions in its selection from among the candidates of those best fitted for a college course.

II. Examinations in 15 Units

Candidates entering by this plan are required to take the psychological examination for purposes of record only.

By this plan a candidate's qualifications for admission will be based upon the following four considerations:

A. School Record.

Evidence of adequate preparation in the subjects required for admission.

B. Examinations.

Except for reasons of weight examinations will be credited only if passed within twenty-nine months of the time the candidate expects to begin her college work.

A candidate may not present herself at more than four series of examinations, except by special permission of the Committee on Admissions.

The following examinations in 15 units may be offered in partial fulfillment of the examination requirements for admission:

- (i) Those given by the College Entrance Examination Board.¹
- (ii) Those entrance examinations given by Columbia University.
- (iii) Examinations given in the high schools by the Education Department of the State of New York (Regents') to students who have satisfactorily completed certain courses in these high schools. In these examinations 75% will ordinarily be regarded as the lowest passing mark.

NOTE.—An intermediate or advanced language examination will not give a student credit for the elementary or intermediate work unless a mark of at least 85% is obtained in the Regents' examination.

An intermediate algebra examination will not give a student credit for elementary algebra unless a mark of at least 85% is obtained in the Regents' examination.

To secure credit for drawing three years' work must be taken and Regents' examinations offered in elementary representation and design and intermediate drawing.

¹ The numerical ratings of the Board are accepted by the College. The passing mark, however, is fixed by the Committee on Admissions.

Since the Regents' Board no longer gives examinations in advanced botany and advanced zoölogy, all Regents' candidates offering those subjects for admission in September will be required to take the College Board or Columbia examinations in the subjects. Candidates offering those subjects for admission in February require special action.

(iv) With special permission, certificates of entrance examinations taken in good faith for admission to other institutions. Such certificates are accepted only in so far as they cover specifically, and by name, subjects or lettered (or numbered) parts of a subject which are accepted for admission as stated on page 17.

C. Character.

Evidence of the possession of the qualities of mind and character deemed requisite for the most profitable pursuit of a college course. A personal interview is desired whenever possible. *The Committee on Admissions is able to give little if any weight to letters of recommendation from persons outside the school of the candidate, unless asked for by the college.*

D. A Health Record.

This will include a health history and the results of a health examination.

This must be submitted on blanks furnished by the Secretary to the Committee on Admissions, and approved by the Barnard College Physician before a student will be permitted to register.

It should be clearly understood that the satisfaction of any one or two of these requirements does not entitle the candidate to admission.

III. Four Examinations Plan

Candidates entering by this plan are required to take the psychological test for purposes of record only.

By this plan a candidate's qualifications for admission will be based upon the following four considerations:

A. School Record.

A candidate for admission who has completed with a high degree of proficiency a satisfactory secondary school course may, at the discretion of the Committee on Admissions, receive permission to take the four comprehensive examinations.

B. Examinations.

She must furnish school reports covering the entire record of subjects and grades for four years previous to college entrance, and a confidential estimate of character, personality, and promise of usefulness from the school principal. These should be sent to the Secretary to the Committee on Admissions, if possible, before January 15 of the year in which the examinations are to be taken. The Committee on Admissions must give its permission, based on these reports, before the applicant may take the examinations.

She must take these entrance examinations in not less than four subjects at one and the same series of examinations, the subjects in question to include all

those prescribed for admission and the examinations to be the comprehensive examinations. These subjects must be the following, unless for reasons of weight the Committee on Admissions allows substitution for 1 or 3:

1. English.
2. A foreign language.
3. Mathematics, comprehensive or in part, or chemistry, or physics.
4. A fourth subject, designated by the applicant from the subjects accepted for entrance. This choice will be subject to the approval of the Committee on Admissions, which may at its discretion substitute another subject.

These four examinations must be taken at one time. Comprehensive examinations are held by the College Entrance Examination Board in June, and by Columbia University in September.

At least two examinations must cover more than two units each.

In each subject chosen for examination, the comprehensive examination covering all the units offered by the candidate for admission must be taken.

A student, if admitted, will be admitted without conditions. If she fails of admission, she will not be considered for admission again under the Four Examinations Plan until after the interval of one academic year. She may, however, present herself at the next series of examinations as a candidate for admission under the plan which offers examinations in all fifteen units. The results of a candidate's examinations will stand to her credit for twenty-nine months.

A candidate who wishes to enter by the Four Examinations Plan may, if she desires, test herself by taking preliminary examinations — not to be credited toward admission — before she presents herself for the four comprehensive examinations which she plans to count.

C. Character.

Evidence of the possession of the qualities of mind and character deemed requisite for the most profitable pursuit of a college course. A personal interview is desired whenever possible. *The Committee on Admissions is able to give little if any weight to letters of recommendation from persons outside the school of the candidate, unless asked for by the college.*

D. A Health Record.

This will include a health history and the results of a health examination.

These must be submitted on blanks furnished by the Secretary to the Committee on Admissions, and approved by the Barnard College Physician before a student will be permitted to register.

It should be clearly understood that the satisfaction of any one or two of these requirements does not entitle the candidate to admission.

Examinations

Time. — Examinations for admission to Barnard College are held each year in June and September. In 1930 they will be held June 16–21 and September 15–19, and in 1931, June 15–20.

¹ **NOTE.** — The regular series of entrance examinations in January has been discontinued. Candidates for admission to Barnard College in February of

¹ A proposal is pending, that, after February 1931, no Freshmen will be admitted at the beginning of the Spring Session.

any year may be given entrance examinations in the preceding January, provided that they present evidence of preparation which makes it reasonably probable that they can pass the examinations for which they wish to apply, and provided further that such examinations would, if passed, complete their requirements for admission.

Place. — In June the entrance examinations will be conducted by the College Entrance Examination Board, of which Columbia University is a member, at Barnard College, and at a large number of widely distributed points. A list of these points will be published by the Board (431 West 117th Street, New York, N. Y.) about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

In September, 1930, the entrance examinations of Barnard College will be conducted by the Columbia University Committee on Admissions, and will be held only at the College.

Application for Examination. — Every candidate for examination is required to file an application in advance for *each series of examinations* which she wishes to take. For the examinations in June, 1930, the application must be filed with the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y.

Applications for examination in the United States east of the Mississippi River or on the Mississippi River, must be filed on or before May 26. Applications for examination elsewhere in the United States or in Canada must be filed on or before May 19, and applications for examination at points outside of the United States and Canada must be filed on or before May 5. Requests for blank forms of application should be addressed to the Secretary of the Board.

When the candidate has failed to obtain the required blank form of application for examination (other than the Scholastic Aptitude Test), the usual examination fee will be accepted, if the fee arrives not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination center at which she wishes to present herself, and a list of all the subjects in which she may have occasion to take the Board's examinations.

A candidate for a competitive scholarship to be awarded on the basis of the June examinations must, in her application to the Secretary of the College Entrance Examination Board, mention the scholarship for which she is competing. For the examinations in September, 1930, applications must be filed with the Registrar of Barnard College on or before September 8. Requests for blank forms of application should be addressed to the Secretary to the Committee on Admissions of Barnard College.

Candidates who wish to use four examinations for admission (see page 21) should, if possible, submit their records to the Secretary to the Committee on Admissions before January 15 of the year in which the examinations are to be taken.

Examination Fee. — *The fee for each series of examinations is \$10 for the College Entrance Board and \$10 for the Columbia University examinations.*

Every application for examination in June must be accompanied by a fee of \$10 in the form of a postal order, express order, or draft on New York to the order of the College Entrance Examination Board for all candidates. Appli-

cations received later than the dates named will be accepted where it is possible to arrange for the examination of the candidates concerned, but only upon the payment of an additional fee of \$5. The Board will not accept belated applications for the Scholastic Aptitude Test.

Examinations will be held in accordance with the Time (Standard or Daylight Saving) observed in the local public schools. Candidates who are to take the Scholastic Aptitude Test should report to the supervisor of examinations on Saturday, June 21, at 8:45 a. m. No candidate will be admitted to the Scholastic Aptitude Test after 9:00 a. m. At centers where Daylight Saving Time is observed candidates should report at 7:45 a. m., Standard Time, and the test will begin at 8:00 a.m., Standard Time.

Every application for examination in September must be accompanied by a fee of \$10 in the form of a postal order, express order, or draft on New York to the order of *Barnard College*.

If a late application is accepted, a second fee of \$5 must be paid.

The receipt for the examination fee must be carefully preserved by the candidate and shown (not surrendered) to the supervisor in charge of the examinations as evidence of her right to be admitted to the same.

The fee for examination in June cannot be returned unless the request for the cancellation of the application and the return of the fee reaches the Secretary of the Board on or before June 9, 1930. The fee for examination in September cannot be returned unless the request for the cancellation of the application and the return of the fee reaches the Registrar of Barnard College on or before September 11, 1930.

Comprehensive Examinations. — The College Entrance Examination Board also holds a set of Comprehensive Examinations designed primarily to meet the needs of candidates wishing to enter by four examinations (see page 21). Candidates for admission by examinations in all 15 units may take the comprehensive examination in the whole of any subject offered instead of the "ordinary" examinations in the separate parts of that subject, *e.g.*, English Cp. instead of English 1 and 2.

The applications and examination fees of candidates desiring to take the Board's comprehensive examinations are subject to the same general rules as the applications and fees of other candidates for examination (see page 22).

Schedule of Examinations. — Candidates taking the examinations must report to the supervisor, in the examination room, fifteen minutes in advance of the first examination which they are to attend.

JUNE EXAMINATIONS

June 16-21, 1930

On Tuesday morning and on every subsequent half-day a candidate will be permitted to remain under examination for four hours, but not longer, if the periods assigned to the examinations that she wishes to take aggregate four hours or more.

Monday, June 16

Mathematics <i>a</i> — Elementary Algebra (3 hours)	9:30
Mathematics <i>a i</i> — Algebra to Quadratics (2 hours)	9:30
Mathematics <i>a ii</i> — Quadratics and beyond (2 hours)	9:30
Comprehensive Mathematics Cp. 3 — Elementary (3 hours)	9:30
¹ French (3 hours)	2:00

Tuesday, June 17

English 1-2 (3 hours)	9:00
Comprehensive English (3 hours)	9:00
Botany (2 hours)	2:00
Chemistry (2 hours)	2:00
Physical Geography (2 hours)	2:00

Wednesday, June 18

Latin (3 hours)	9:00
Biology (2 hours)	2:00
Physics (2 hours)	2:00
Zoölogy (2 hours)	2:00

Thursday, June 19

Mathematics <i>c</i> — Plane Geometry (3 hours)	9:00
Mathematics <i>d</i> — Solid Geometry (3 hours)	9:00
Mathematics Cp. <i>H</i> — Comprehensive Advanced (3 hours)	9:00
Mathematics <i>CD</i> — Plane and Solid Geometry, major requirement (3 hours)	9:00
Mathematics <i>cd</i> — Plane and Solid Geometry, minor requirement (3 hours)	9:00
¹ German (3 hours)	2:00
² Italian (3 hours)	2:00
¹ Spanish (3 hours)	2:00

Friday, June 20

History <i>a</i> — Ancient (2 hours)	9:00
History <i>b</i> — European (2 hours)	9:00
History <i>c</i> — English (2 hours)	9:00
History <i>d</i> — American (2 hours)	9:00

¹ The comprehensive examinations in French, German, and Spanish will make provision for Cp. 2, Cp. 3, Cp. 4, *a*, *b*, *bc*.

² The comprehensive examination in Italian will make provision for Cp. 2, Cp. 3, *a* and *b*.

ENTRANCE EXAMINATIONS

Mathematics <i>b</i> — Advanced Algebra (2 hours)	2:00
Mathematics <i>e</i> — Plane Trigonometry (2 hours)	2:00

Saturday, June 21

Scholastic Aptitude Test (3 hours)	9:00
Drawing (2 hours)	2:00
Greek (3 hours)	2:00

SEPTEMBER EXAMINATIONS

*September 15-19, 1930**Monday, September 15*

English 1 (2 hours)	9:00
English 2 (2 hours)	9:00
Comprehensive English (3 hours)	9:00
¹ French (3 hours)	2:00

Tuesday, September 16

Latin — Second Year (2 hours)	9:00
Latin — Third Year (2 hours)	9:00
Latin — Fourth Year (2 hours)	9:00
Comprehensive Latin (3 hours)	9:00
² Psychological Test.	2:00

Wednesday, September 17

Mathematics <i>a i</i> — Algebra to Quadratics (2 hours)	9:00
Mathematics <i>a ii</i> — Quadratics and beyond (2 hours)	9:00
Mathematics <i>a</i> — Elementary Algebra, complete (3 hours)	9:00
Comprehensive Elementary Mathematics (3 hours)	9:00
¹ German (3 hours)	2:00
³ Italian (3 hours)	2:00
¹ Spanish (3 hours)	2:00

Thursday, September 18

Chemistry (2 hours)	9:00
Physics (2 hours)	9:00
Mathematics <i>c</i> , plane geometry (2 hours)	9:00
Physiography (2 hours)	9:00
Mathematics <i>d</i> — Solid Geometry (2 hours)	2:00
Mathematics <i>b</i> — Advanced Algebra (2 hours)	2:00
Mathematics <i>e</i> — Plane Trigonometry (2 hours)	2:00

¹ The comprehensive examinations in French, German, and Spanish will make provision for Cp. 2, Cp. 3, Cp. 4, *a*, *b*, *bc*.

² In January it will be given on the 24th, 9:00-12:30.

³ The comprehensive examinations in Italian will make provision for Italian Cp. 2, Cp. 3, *a* and *b*.

Comprehensive Advanced Mathematics (3 hours)	2:00
Greek (3 hours)	2:00

Friday, September 19

History <i>a</i> — Ancient (2 hours)	9:00
History <i>b</i> — European (2 hours)	9:00
History <i>c</i> — English (2 hours)	9:00
History <i>d</i> — American (2 hours)	9:00
English Bible (2 hours)	2:00
Botany (2 hours)	2:00
Zoölogy (2 hours)	2:00
Drawing (2 hours)	2:00
Music <i>a</i> — Musical Appreciation (2 hours)	2:00
Music <i>b</i> — Harmony (2 hours)	2:00

Substitutes for the Board or Barnard Examinations. — Barnard College accepts in lieu of its entrance examinations or those of the College Entrance Examination Board¹ no credentials of any sort except (1) the examination reports of the Education Department of the State of New York, showing that the candidate has completed certain courses in a high school in the State of New York and that she has passed the examinations of the Education Department in these subjects² (for table of equivalents, see page 28); (2) with special permission, the official reports of entrance examinations taken in good faith for admission to other colleges; and (3) certain courses of the Summer Session of Columbia University (see page 29). These credentials are accepted only in so far as they cover specifically, and by name, subjects or lettered (or numbered) parts of a subject which are accepted for admission to Barnard College, and state in percentages the grades received in the examinations in such subjects. Candidates must take the regular entrance examinations in the subjects in which their credentials are not deemed adequate. Except for reasons of weight, credentials are not accepted as covering subjects passed more than twenty-nine months previous to the date at which the candidate intends to begin residence. No certificates from preparatory schools or from preparatory departments of colleges will be accepted in lieu of entrance examinations.

In order to be credited toward entrance, the candidate's credentials, together with (1) the statement of the extent and character of her preparation in each subject offered (see School Record, page 19), and (2) any certificates for science laboratory work or drawings that she has to present, must be in the hands of the Committee on Admissions on or before August 1 for admission in September, and on or before January 1 for admission in February.

State Education Department Examinations. — Candidates for admission on the credentials of the New York State Education Department should notify the Secretary to the Committee on Admissions of Barnard College of their intention on or before August 1 for admission in September and on or before

¹ The numerical ratings of the Board are accepted by the College, but the passing mark is fixed by the Committee on Admissions.

² 75% will ordinarily be regarded as the lowest passing mark in these examinations.

December 1 for admission in February, in order that sufficient time may be allowed for obtaining their records from the Education Department.

In these examinations 75% will ordinarily be regarded as the lowest passing mark. These examinations will be subject to the same rules as to series and dates as other examinations (see page 20).

The subjects for which the State credentials are accepted and their value in Barnard entrance units are as follows:

	State Education Department counts	Barnard units
¹ Biology (Advanced)	5	1
¹ Chemistry	5	1
¹ Drawing, Elementary Design, and Elementary Representation, and Intermediate Drawing	6	1
English, Four Years (including literature questions)	14-16	3
French, elementary, Two Years	10	2
French, intermediate, Third Year	5	1
French, advanced, Fourth Year	5	1
German, elementary, Two Years	10	2
German, intermediate, Third Year	5	1
German, advanced, Fourth Year	5	1

Greek:

Grammar and Composition	}	10	2
Second Year Greek		5	
Translation of Prose at Sight		5	
Third Year Greek		0	
Advanced Prose Composition		½	

¹ History:

¹ Ancient or Major Sequence, Course A	5	1
¹ Modern, Parts I and II or Major Sequence, Course B	6-5	1
¹ English	5	1
¹ American and Civics or Major Sequence, Course C	5	1
Italian, elementary, Two Years	10	2
Italian, intermediate, Third Year	5	1

Latin (for candidates offering 4 units):

Latin Three Years	15	3
Latin Fourth Year	5	1

Latin (for candidates offering 2 or 3 units):

Second Year Latin	8	2
Latin, Third or Fourth Year	5	1

¹ Credit cannot be secured in these subjects unless the following requirements are met:
 (a) In all natural sciences teachers' certificates of laboratory work, must be presented. In doubtful cases the candidate will be required to submit a certified laboratory notebook.
 (b) In drawing a teacher's certificate, covering at least twenty drawings, must be presented.
 (c) In history only the five-count electives will be accepted.

Mathematics:

Algebra	7	2
Intermediate Algebra	}	
Plane Geometry	5	1
Solid Geometry	2	$\frac{1}{2}$
Plane Trigonometry	2	$\frac{1}{2}$
Advanced Algebra	2	$\frac{1}{2}$
¹ Physics	5	1
¹ Physiography	5	1
Spanish, elementary, Two Years	10	2
Spanish, intermediate, Third Year	5	1
Spanish, advanced, Fourth Year	5	1

Summer Session Work in Lieu of Entrance Examinations.—A grade of C (in some courses, B) in the following courses of the Summer Session of Columbia University will fulfill entrance requirements or remove entrance conditions in the subjects specified in each case:

Chemistry sA — for Chemistry

English sX — for English 1, grammar and composition, taken as review work, provided a grade of B is obtained

English sY — for English 2, literature, taken as review work, provided a grade of B is obtained

French sA1, sA01, sA2, sA02 — for elementary French

French sB1, sB01 — for intermediate French

French sB2, sB02 — for advanced French

Geography s25 — for Physiography

German sA1, sA2 — for elementary German

German sB1, sB01 — for intermediate German

German sB2, sB02 — for advanced German

Italian sA1, sA01, sA2 — for elementary Italian

Italian sB1 — for intermediate Italian

Latin sX2 — for 2 years Latin, taken as review, provided a grade of B is obtained

Latin sY2 — for Cicero, if the student has already completed the reading of third year Latin, and provided a grade of B is obtained

Latin sY1 — for Vergil, if the student has already completed the reading of fourth year Latin, and provided a grade of B is obtained

Latin sZ — for advanced Latin prose composition, provided a grade of B is obtained

Mathematics sX — for Intermediate Algebra, if taken as review, and provided a grade of B is obtained

Mathematics sY — for Plane Geometry, if taken as review, and provided a grade of B is obtained

Mathematics sA1, sA5, sA7 — for the corresponding parts of advanced mathematics

¹ Credit cannot be secured in these subjects unless the following requirements are met:

(a) In all natural sciences teachers' certificates of laboratory work must be presented. In doubtful cases the candidate will be required to submit a certified laboratory notebook.

Physics sA1 and sA2 — for Physics

Spanish sA1, sA01 and sA2, sA02 — for elementary Spanish

Spanish sB1, sB01 — for intermediate Spanish

Other Summer Session courses may be counted as fulfilling entrance requirements only by special permission.

Entrance Conditions and Probation. — A candidate for admission who has not secured the prescribed fifteen units may be admitted to the freshman class with conditions, if, in the judgment of the Committee on Admissions, she is qualified to undertake the work of the class. General deficiency in any prescribed subject will disqualify for admission. Except for reasons of weight, a student who has failed to complete a course in a good high school or preparatory school will not be admitted with conditions.

All entrance conditions must be removed within one calendar year from the date of entrance.

A student admitted conditionally or by credentials from another college or from the State Education Department will be held under probation during the first winter or spring session of residence. By Tuesday of the week preceding the Thanksgiving holidays, each department in which students on probation attend will make to the Committee on Instruction a special report of progress in the case of every such student. The Dean, on the recommendation of the Committee on Instruction, will as soon as practicable after the mid-year examinations decide as to each student on probation whether she shall be admitted to full standing, have her period of probation extended, or be dropped from the roll.

The mark C, B, or A, obtained at the end of the first winter or spring session of residence, in a course of a higher grade than the entrance requirement, will be regarded as removing an entrance condition in that subject, unless the condition was incurred in a part of the subject not directly involved in the work of the college course. To remove a condition by college work a mark of at least thirty-five per cent must have been obtained in an entrance examination. Any condition not so removed must be satisfied by a regular entrance examination for which an application must be filed and a fee paid precisely as required of a candidate for admission. (Regarding the removal of entrance conditions by work in the Summer Session of Columbia University, see above.)

While work done in University Extension courses is not primarily accepted in lieu of entrance examinations, *entrance conditions* may be removed by a grade of at least C subsequently obtained in the appropriate extension courses. Students in college who desire to avail themselves of this privilege must submit their choice of extension courses for the approval of the Committee on Instruction as a part of their regular college work. (For the general regulations regarding the election of extension courses, see page 44.)

ADMISSION TO ADVANCED STANDING

Students who have satisfactorily completed at least a year of work at an acceptable college or scientific school or foreign institution of equivalent grade may be admitted with such advanced credit as their previous records may warrant.

Each candidate should send to the Committee on Admissions with her application blank a catalogue of her college plainly marked, showing entrance credit and courses taken. These should be accompanied by an official transcript of her college record, including entrance credit. If for any reason a student cannot obtain an official record until the end of the term, she may substitute her report cards. One or the other must be in the hands of the Committee on Admissions before the Committee on Transfers can estimate her standing in Barnard College. The Committee on Transfers may give an applicant a tentative estimate of the number of points that she may receive as credit toward a Barnard College degree and the prescribed work, not previously taken, from which she may be excused. Final determination of these matters lies with the Committee on Transfers, which reserves the right of readjusting credit at any time. These reports should be received by the Committee on Admissions by July 1 for admission in September and by December 1 for admission in February; otherwise action on the case may be delayed until just before the opening of college. Final action on admission depends upon (1) honorable dismissal, (2) certificate of good moral character from an authorized representative of her college, and (3) certificate of sound health.

No applicant may enter the senior class as a candidate for a degree after October 15 in any year, and no student will receive a degree who has resided less than two full sessions (winter or spring) at Barnard College. (See also paragraph 6, page 44.)

Candidates for admission to the freshman class offering by examination more than the required 15 units may be given credit toward a degree for this extra work, on a basis to be determined by the Committee on Admissions, provided that not more than 18 of the 120 points for a degree may be gained in this way.

ADMISSION AS SPECIAL STUDENTS

Women who wish, without working toward a degree, to make a serious study of some subject or group of subjects, may, with the approval of the Committee on Admissions, enter Barnard as non-matriculants. They need not pass formal entrance examinations, but they must submit satisfactory credentials in regard to character and qualifications for the courses they wish to take.

Candidates for admission as non-matriculants must be at least 18 years of age. They may not pursue merely elementary courses. They must not, within ten months of the time of application, have been rejected or become deficient as regular students.

They will be held to the observance of the same regulations as to attendance, examination in course, proficiency and deficiency as regular students. They are also subject to the usual health regulations (see page 58).

They are entitled to a formal statement as to the satisfactory completion of the work that they have taken. They may, in view of a good record in college courses, be transferred by the Committee on Instruction to the matriculated basis as candidates for a degree.

DEFINITION OF REQUIREMENTS

Specimens of the question papers set by the College Entrance Examination Board are published annually in book form by Ginn and Company, Boston, Mass.

For a detailed statement of the requirements the reader is referred to the pamphlet containing definitions of the requirements in each subject, published by the College Entrance Examination Board, 431 West 117th St., New York City. This pamphlet, which will be mailed by the Board on receipt of twenty-five cents in stamps, also contains lists of suitable laboratory experiments in chemistry and physics.

A statement of the requirements in the English Bible, musical appreciation, and harmony may be obtained on application to the Secretary of the University.

NOTEBOOKS, DRAWINGS, ETC.

Each candidate must present at the time of examination a certificate from her teacher certifying that the laboratory requirements in each science offered by the candidate have been complied with. This regulation applies also to drawing. In all doubtful cases the candidate will be required to submit a laboratory notebook. *This regulation applies to candidates using College Entrance Examination Board, Columbia University, State Education Department, or any other entrance examinations.*

Blank forms may be obtained on application to the Secretary to the Committee on Admissions of the College.

REGISTRATION

Registration. — Before attending any University exercise each student shall comply with the regulations in regard to registration and payment of fees. She shall present herself in person at the office of the Registrar and shall there file a registration blank giving such information as may be required for the College records.

Every new student shall also at the time of registration file a statement of the courses which the Committee on Instruction has authorized her to pursue. Students already in College shall give notice of their choice of elective courses for each session to the Registrar on dates to be announced from time to time by the Committee on Students' Programs.

The office of the Registrar will be open for registration on Friday, Monday, and Tuesday, September 19, 22, and 23, 1930, and on Tuesday, February 3, 1931. New students may register also on Wednesday, September 24, 1930.

Students registering late are charged an additional fee of \$5 and are held accountable for absences thus incurred.

Each student who holds a scholarship shall present her scholarship certificate to the Bursar *at the time of registration*.

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registering in Barnard shall at the same time be registered

in any other school or college, either of Columbia University or of any other institution, without the consent of the Dean.

Withdrawal. — An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the College, but no student under the age of twenty-one years shall be entitled to a discharge without the assent of her parent or guardian furnished in writing to the Dean. Students withdrawing are required to notify the Registrar. Application for the return of fees must be made in writing at the time of withdrawal.

GENERAL STATEMENT REGARDING FEES AND THE REGULATIONS GOVERNING THEIR PAYMENT

All fees are payable semi-annually in advance at the Bursar's Office, and no reduction is made for late registration. Registration is not complete until registration, tuition and laboratory fees are paid. Payment of fees after the last day of registration (see Academic Calendar) imposes automatically the statutory charge of \$5 for this privilege. In special cases, for reasons of weight, the payment of one half the tuition fee for the session (\$190) may be deferred until mid-term — November 15 or March 14. In such cases the additional fee of \$5 is charged, if the half of the tuition fee is not paid on or before the aforesaid date.

Under the regulations, the privileges of the College are not available to any student delinquent in the payment of her fees.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

Checks in payment of all fees, including those for charges in the Residence Halls, should read "Pay to the order of Barnard College."

No application for a return of fees can be considered unless made in writing at the time of withdrawal.

FEES

Registration Fee, payable at the opening of each session	\$ 10.00
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This fee is never refunded.

Late Registration Fee (see page 33)	\$ 5.00
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Tuition payable at the opening of each session	\$190.00
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Students not candidates for a degree are charged at the rate of \$14.00 per point with a maximum fee of \$190.00 per session.

Other students who are compelled for reasons of weight to take a reduced program may, with the approval of the Dean, pay at the rate of \$14.00 per point.

Rebates. — After the last day of the period provided for change of course (the second Saturday of each session), no tuition fees will be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the College, when a pro rata return of fees may be authorized by the Registrar. When a rebate is allowed for withdrawal from the College, such rebate will be

reckoned from the day upon which the Registrar receives notice from the student.	
<i>Additional fee for applied music, courses 67, 68, 83, 84, 91, 92, each course</i>	\$100.00
Student Activities Fee.	\$ 3.00
For all regular and unclassified students in the College for each winter or spring session or any part thereof.	
Examination Fee, payable in each case before the examination is held:	
For entrance (see page 23) for each series	\$ 10.00
For late application	\$ 5.00
For each and every deficiency or special examination	\$ 3.00
(A special or deficiency examination is one taken at any time other than at the conclusion of a course actually attended, whether taken prior or subsequent to admission)	
For the degree	\$20.00
This fee is never refunded.	
Deposits for the use of apparatus, material, and the like, are required in	
Chemistry 63, 64, each course	\$10.00
Chemistry 41, 42, 65, 66, each course	\$12.50
Chemistry 42a, 105, 106, 145, 146, 157, 158, each course.	\$15.00

FEES OF STATE SCHOLARS

Each State Scholar should file at the office of the Bursar *on the day of registration* the notice which she has received from Albany stating that a State Scholarship has been awarded to her. On the basis of this official notice she is entitled to a credit of \$50 a session.

A State Scholarship Certificate for each of these students is then sent from Albany to the Bursar, who records all necessary information and forwards the certificate to its owner. This certificate need not be presented again at the Bursar's office.

DEPOSITORY FOR STUDENTS' FUNDS

For the convenience and protection of students while in residence at the University, the Bursar of Columbia University in Room 310 University Hall is prepared to receive funds for deposit, subject to the printed rules and regulations, copies of which may be obtained at his office upon request. There is no charge for this service other than the exchange on out-of-town checks and drafts.

Personal checks will not be cashed by the University or credit allowed until the money has actually been received from the bank on which the check is drawn. New York drafts, money orders, and travellers' checks may be deposited for collection and withdrawals allowed when the cash is received. Students should provide themselves preferably with money orders, bank drafts on New York or travellers' checks for the amount of their expenses, and are advised to open an account with the University on registration.

DORMITORY FEES

Deposit	\$25.00
Payable in advance to secure assignment of room. One half of this deposit is credited each session on payment of rent. The deposit is forfeited if the applicant withdraws after September 1, or, in the case of an applicant entering at the beginning of the spring session, after January 15	
Board	\$300.00
Payable in two equal instalments in advance, on or before taking possession of room, and on February 1 ¹	
Rent	
Payable in two equal instalments in advance, on or before taking possession of room, and on February 1 ¹	
Single rooms in Brooks Hall (a few with private bath)	\$175-575
Double rooms in Brooks Hall, for each student	\$160
Single rooms in Hewitt Hall	\$175-300
Double rooms in Hewitt Hall, for each student	\$235
Suites in Hewitt Hall (two rooms and bath), for each student	\$400-575
<i>Various scholarships ranging in value from \$50.00 to \$700.00 are available for students in need of assistance (see page 47).</i>	

ESTIMATED NECESSARY EXPENSES

Board and room, \$460-875 for the academic year.

Registration fee, \$20.

Annual tuition fee, \$380.

Student Activities fee, \$6.

Text-books, \$20 up each year.

Gymnasium costume, averaging \$12.

Final examination for the degree, \$20.

THE PROGRAM OF STUDIES

Upon satisfactory completion of a program arranged according to the regulations described below (pages 35-38), the student is recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Diplomas are issued only at Commencement and in February and in October upon the completion of the requirements for the degree.

The requirement for graduation is 120 points, exclusive of the prescribed work in physical education. The term point usually signifies the satisfactory completion of work requiring attendance at class, one hour, or in the laboratory, two hours, a week during a winter or spring session.

I. Program of Studies for the degree of Bachelor of Arts

In constructing the present curriculum the Faculty was guided by the following general principles:

¹ In special cases, for reasons of weight, the payment of one half the rent and board for a session may be deferred until mid-term — November 15 or March 14.

1. Each student should possess certain fundamental tools, useful for successful work in any field, — that is, a command of written and spoken English, the ability to read at sight with ease at least one foreign language, a healthy body, and a knowledge of hygiene.
2. Beyond those needed to give these fundamental tools it is not desirable to prescribe any specific courses or subjects.
3. Each student should be required to concentrate her work sufficiently to gain a fairly thorough knowledge of one subject.
4. Each student should be required to distribute her work sufficiently to gain some insight into the other main divisions of human thought.

To carry out these general principles, the following specific requirements and regulations were adopted:

Specific Prescriptions

English A	6 points
English C	1 point
Hygiene A	2 points
Physical Education A, B, C, and D.	

Ability to read at sight with ease one of the following languages: French, or German, or Greek, or Latin.¹ This requirement should be satisfied as early as possible in the college course and must be completed before the end of the junior year.

All other work is elective but must include

A major subject of 28 points

The major must be comprised of work of not less than grade C in some one subject in some one department. It must meet the requirements laid down by the department concerned and announced at the head of the departmental statements on pages 62-110.

Courses amounting to not less than 14 points

from each of the following groups other than the one in which the major lies. These may be elected without restriction excepting that in

- (a) Group I, the 14 points may include (1) not more than one elementary course in ancient foreign languages and (2) no first-year course in modern foreign languages.
- (b) Group II, 8 of the 14 points must be in one of the following laboratory sciences: botany, chemistry, geology, physics, experimental psychology, or zoölogy.

Group I. Languages, Literatures, and other Fine Arts:

Ancient Art, Anthropology (Courses 6, 107, 108), Classical Literatures (in translation), English, Esthetics (Department of Philosophy), Fine Arts, French, German, Greek, Italian, Latin, Music, Romance Philology, Science of Language, Spanish.

¹ In individual cases, by special permission of the Committee on Instruction, Italian or Spanish may be substituted for one of these languages.

Group II. Mathematics and Natural Sciences:

Anthropology (Courses 3, 4), Astronomy, Botany, Chemistry, Geography, Geology, Mathematics, Mineralogy, Physics, Psychology (experimental, developmental, abnormal, contemporary, advanced problems), Statistics (Economics 18), Zoölogy.

Group III. Social Sciences:

Anthropology (Courses 1, 2, 109, 110), Classical Civilization, Economics, Geography, Government, History, Philosophy, Psychology (introductory, comparative, social, applications, systematic, and differential), Religion, Sociology, Statistics (Economics 17).

II. Program of Studies for the Degree of Bachelor of Arts with the Certificate in Science or Mathematics

Candidates for the degree of Bachelor of Arts who desire to specialize in the natural sciences or in mathematics may elect the foregoing program of studies with the modifications given below. For the satisfactory completion of the specified requirements they will receive on graduation a certificate which will indicate the nature of the program of studies pursued.

This program of studies is the same as the foregoing program, except in the following specific respects:

A Major Subject of at least 28 points of not less than grade C in one of the following natural sciences: astronomy, botany, chemistry, geography, geology, mineralogy, physics, experimental psychology, and zoölogy, or in mathematics, and

Two Minor Subjects of at least 12 points each, one of which must be allied to the major, both to be chosen from the foregoing list. Anthropology may also be taken as a minor subject.

Additional Grouped Work in science, or in mathematics, or in science and mathematics, so as to make a total of at least 60 points in science, or in science and mathematics.

DEGREE WITH HONORABLE MENTION

Degrees with honorable mention will be awarded to students in the regular course who have had honorable mention for general excellence at the end of each academic year.

**THE HONORS COURSE LEADING TO THE DEGREE OF
BACHELOR OF ARTS WITH HONORS IN SPECIAL SUBJECTS**

The Honors Course has been arranged for exceptionally well equipped students with a pronounced interest in some one subject. It offers to these an opportunity to do more intensive and better work than the ordinary students, to have more chance for independent study, and at the same time more individual conferences

with the professors in their major department. It gives them also the opportunity of attaining, by successful completion of this course, high academic honor.

Entrance into the course is optional with those students who are eligible.

Eligibility. — Students who have completed 60 points of work with 75% of grade A and B are eligible as candidates for the Honors Course. The names of students who would be eligible for the course on this basis, *providing the quality of work is sustained until the end of their sophomore year*, will be posted during the third week in March. Students who wish to apply for the course should do so to the Committee on Honors by April 10. Admission to the course will be subject to the approval of the department in which the student elects to work.

In special cases permission will be given to enter the course in the middle of the junior year, providing similar conditions of eligibility are met.

The eligibility percentage will be figured only on the work taken at Barnard College. Summer session courses may count to bring the student's points up to the 60 required for admission to the course, but they will *not* count in the percentage of work of A and B grade.

Ordinarily students who cannot complete their 60 points until the deficiency examinations in September will not be eligible for admission to the Honors Course until the following February.

A student whose name is not on the eligibility list may be recommended as a candidate for the Honors Course by any department in which she is doing work of conspicuous excellence and promise. Subject to the approval of the Committee on Honors, such a student shall be admitted to the Honors Course.

Admission. — Every department will, at its discretion, assign some work to be done by its candidates during the summer. The result of this work and the students' records as a whole will be scrutinized by the department before a decision is made as to the admission of the candidates. The department may require a qualifying examination or some other form of test.

Supervision. — After a student has been admitted to this course the appropriate department takes charge of her work and, subject to the approval of the Faculty, arranges the curriculum to be pursued for a degree with honors in her special subject.

Prescription. — Students in the Honors Course are not exempt from the completion of the group requirement, and this requirement includes a laboratory science. Where the completion of the group requirement cannot be taken in the junior year parallel to the Honors Course, the student should try to satisfy it in summer session courses. This is possible in practically every subject, excepting the laboratory science. Any deficiency in group requirements must be satisfied before the opening of the senior year. Students seriously deficient in the group requirement will not be admitted to the Honors Course.

All honor students are required to pass by the end of their junior year the regular foreign language test required of other students, in French, or German, or Greek, or Latin. They are also required to pass a reading test in another foreign language, to be set by the department in charge of their work before the mid-year examination period of their senior year.

Students failing to meet these requirements are dropped from the Honors Course.

During the junior year students admitted to the Honors Course are held on probation, and at the end of the year if they have not done thoroughly satisfactory work, the Committee on Honors will recommend that they return to the usual course of study.

During the junior year honor students will be expected to take the regular examinations in the courses for which they are registered and to receive grades in their work, the understanding being that examinations may be omitted only in courses that are elected as optional.

In the senior year all regular examinations in the major subject are omitted, examinations in other subjects being at the option of the major department, and at the end of the year the student takes a comprehensive examination in her subject. Students who pass the comprehensive examination with high standing are recommended for the degree with honors in their respective subjects. If the examination is passed only moderately well, the student will receive the degree but without honors.

Exemption. — Honor students are exempted from the technical requirements of 120 points, from the usual regulation of class attendance, which in their cases will be under the direction of their major departments, and in their senior year only from the customary system of grading. Honor students are not exempted from the supervision of the Department of Physical Education.

For special requirements see the various departmental statements, pages 62-110.

PROGRAM FOR STUDENTS ADMITTED BY TRANSFER FROM OTHER COLLEGES

Students transferring to Barnard College with sufficiently good records from other colleges will be held to the requirements for the degree outlined on pages 35-36. They shall not be exempt from the major or the laboratory science or the language requirement. Such students, if sufficiently able, are eligible for the special Honors Course described above (page 37). Such students are also eligible for transfer to professional schools under the regulations described below (page 40).

The administration of the foregoing provision will be in accordance with the following principles and rules:

1. Such students should have completed at entrance or at other colleges the equivalent of the entrance requirements to Barnard College, as may be determined by the University Committee on Admissions.
2. In general, students who have been accepted by the Committee on Admissions for entrance by transfer to Barnard College, will be admitted to the class to which their previous entrance and college record entitle them. The Committee on Transfers will determine, in conference with the student, in view of her previous academic record, her experience and maturity, her intellectual interests and professional plans, the program of work that she shall take. In certain cases a year of probation may be required before the status of the student is exactly fixed.

PREPARATION FOR PROFESSIONAL SCHOOLS

Students who intend to transfer to professional schools are of two classes, those who leave Barnard at the end of the sophomore year, without candidacy for the Bachelor of Arts degree, and those who at the end of the junior year wish to take advantage of the 'combined course,' counting the first year of an approved professional school in place of the senior year at Barnard.

Students intending to transfer to professional schools without candidacy for the degree of Bachelor of Arts are required to take English A and C, Hygiene A, physical education throughout their stay at Barnard, and such other courses as are appropriate in preparation for the professional school to which the transfer is to be made. (See Architecture, Business, Journalism, Medicine, Law, page 41.)

Students with a good record may, by special permission of the Committee on Instruction, count the first year of an approved professional school in place of the senior year at Barnard. To be eligible for this 'combined course' a student must complete at Barnard, before transferring to the professional school, 90 points of academic work including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction.

Students transferring to Barnard from other institutions will be granted this privilege of a 'combined course' only if they have an unusually good record, and in no case will the permission of the Committee on Instruction be given until after the student has completed at least one full year of work in Barnard College. (See Architecture, Business, Journalism, Medicine, Law, page 41.)

COURSES IN THE GRADUATE FACULTIES AND PROFESSIONAL SCHOOLS OPEN TO BARNARD STUDENTS

Political Science, Philosophy, and Pure Science

Certain graduate courses in Columbia University under the Faculties of Political Science, Philosophy, and Pure Science which are listed in the Barnard Announcement are open, with the consent of the department concerned and the Committee on Instruction, to specially qualified seniors and, in some cases, juniors. In these courses special arrangements are made for the supervision of the work of undergraduates. Since graduate work is on an entirely different basis of credit from undergraduate work, it is rarely possible for a student in Barnard College to take any graduate courses for which these special arrangements have not been made. Seniors of unusual ability may, however, be permitted in special cases to elect not more than two graduate courses.

Graduate courses, when approved by the Committee on Instruction, may be counted by an undergraduate toward the Bachelor's degree. Or, in case the student has more points than the number required for that degree, they may, under certain circumstances, be credited toward the Master's degree. For full information concerning the content of the courses, students are referred to the appropriate University announcements mentioned at the end of the departmental statements given below.

Architecture

After two years of collegiate work in Barnard, amounting to at least 60 points' credit (exclusive of physical education) and including English A and C, Hygiene A, two years of college French, mathematics through solid geometry, plane trigonometry, and advanced algebra, and such other courses as may be recommended by the School of Architecture, a student may transfer without examination to the School of Architecture of Columbia University and become a candidate for the degree of Bachelor of Architecture. The course in the School of Architecture leading to this degree generally requires four years for its completion. As only a limited number of students can be accommodated, fulfillment of the requirements does not guarantee admission.

For full information, students are referred to the Announcement of the School of Architecture.

Business

After two years of collegiate work in Barnard, amounting to at least 60 points' credit (exclusive of physical education), including English C and Hygiene A, two years of English, two years of French or German or Spanish or Italian, and one year of economics, a student may transfer without examination to the School of Business of Columbia University and become a candidate for the degree of Bachelor of Science. It is also recommended that a year of work in business administration and in economic geography be completed before transfer. The course in the School of Business leading to this degree generally requires for its completion two years in addition to the two years of collegiate work in Barnard College.

For full information, students are referred to the Announcement of the School of Business.

Journalism

After two years of collegiate work in Barnard, amounting to at least 60 points' credit (exclusive of physical education), including English C and Hygiene A, two years of English with regular practice in writing, one year in natural science or psychology, two years of a modern language (preferably French) in advance of the intermediate admission requirement, government or economics (both are advised), and general European or American history (both are advised), a student may transfer without examination (except in typewriting) to the School of Journalism of Columbia University and become a candidate for the degree of Bachelor of Literature. The course in the School of Journalism leading to this degree requires for its completion two years in addition to the two years of collegiate work in Barnard College.

For full information, students are referred to the Announcement of the School of Journalism.

Law

After three years of collegiate work of good grade amounting to at least 90 points (exclusive of physical education) and including English C and Hygiene A and satisfactory courses in economics, in English and in American history, a student may be recommended by the Faculty of Barnard College for transfer without examination (except a capacity test) to the School of Law of Columbia

University to become a candidate for the degree of Bachelor of Laws. The course leading to this degree requires for its completion three years of study in addition to the three years of collegiate work at Barnard College.

While the foregoing represents the minimum requirement for admission, a collegiate course of four years leading to a Baccalaureate degree is considered the most desirable preparation. Since only a limited number of specially qualified students will be admitted, the fulfillment of the requirements for entrance does not guarantee admission. The selection will be based on the student's capacity for law as determined by the capacity test and her entire college record.

For full information, students are referred to the Announcement of the School of Law.

Medicine

After collegiate work of good grade at Barnard amounting to at least 72 points (exclusive of physical education), and including English C and Hygiene A, one year of physics based on entrance physics, one year of inorganic chemistry based on college entrance chemistry, one-half year of qualitative or quantitative analysis, one-half year of organic chemistry, one year of biology, two years of English, elementary and intermediate French or German or one year of French or German based on two years of entrance French or German, a student may be recommended by the Faculty of Barnard College for transfer without examination to the College of Physicians and Surgeons of Columbia University, to become a candidate for the degree of Doctor of Medicine. The course leading to this degree requires for its completion four years of study in the College of Physicians and Surgeons.

While the above courses represent the minimum requirements for admission, the authorities of the College of Physicians and Surgeons state that a collegiate course of four years leading to a Baccalaureate degree is considered the most desirable preparation. In fact very few students with less than four years pre-medical training can be admitted for the reason that there is an excess of applicants who have already received their Bachelor's degree. Because only a limited number of students can be accommodated, fulfillment of the requirements for entrance does not guarantee admission. The entire pre-medical record of each student is carefully examined in order that those who are adjudged most capable of meeting the exacting demands of the course and the profession of medicine may be selected.

The Barnard College regulations in regard to the amount of work which may be carried make it impossible for a student to complete the above minimum of 72 points in two years without summer session courses. The Barnard College Faculty also requires that all except students of very unusual ability take at least three years of pre-medical work before being recommended for transfer to the College of Physicians and Surgeons.

For full information, students are referred to the Announcement of the College of Physicians and Surgeons.

Music

Undergraduate courses, given in the Department of Music at Columbia University, are open to students of Barnard College and may be credited toward the Barnard degree. These include three years work in the esthetics and history

of music; three years work in theory and composition; courses in instrumental and choral ensemble and instruction in organ, violin, and piano. In addition to above, credit for certain graduate courses all numbered over 100, and listed in the departmental statement on page 94, may be counted toward the A.B. degree when approved by the Committee on Instruction.

The degree of A.M. with music as a major is awarded by Columbia University to graduate students who satisfactorily complete advanced work in composition, criticism, or musicology.

For full information, students are referred to the Announcement of the Department of Music.

Teachers College

Certain courses in the history and theory of education and in general methods for secondary schools are given by Teachers College to regular students in Barnard College and may be credited toward the Bachelor's degree. They are described in the departmental statement on page 71.

Though the other courses in Teachers College are intended primarily for graduate students, admission to some of the courses may be granted as a special privilege to seniors in Barnard College who show in their scholarship, personality, adaptability, and leadership potential teaching power. Students who desire to take these courses in the senior year should apply at the Registrar's office in Barnard College before the preceding April 1 in order that their applications may be passed on by the Dean of Barnard College and the Director of the School of Education or the School of Practical Arts of Teachers College.

Regarding the requirements for the College Graduate Professional Provisional Certificate granted by the Regents of New York or for the position of "teacher in training" in the New York City high schools, students are advised to consult the Occupation Bureau at Barnard College.

Social Work

Exceptional advantages are available for students desiring to specialize in economics, sociology, and social economy, in preparation for social and philanthropic work. Besides the courses given at Barnard in economics and social science, certain graduate courses in this department of Columbia University are open, with the consent of the department and of the Committee on Instruction, to specially qualified seniors. Through an arrangement with the New York School of Social Work, certain courses in the latter institution may also be pursued, with the consent of the Department of Economics and Social Science and of the Committee on Instruction, and the approval of the Director of the School, by specially qualified seniors, and counted toward the Barnard degree. The purpose of this School is to fit men and women for social service in either professional or volunteer work. By taking some of this work in her senior year a Barnard student may anticipate part of the requirements for the diploma of the School of Social Work.

**GENERAL REGULATIONS REGARDING THE PROGRAM
OF STUDIES, EXAMINATIONS IN COURSE,
CREDIT AND ADVANCEMENT**

Election of Courses. — Before final choice of elective studies, all students should consult their advisers (see page 47), the Committee on Instruction, and, in case of any doubt, the instructors in charge of particular courses as well. Electives must be chosen on some consistent plan. Conflicts between courses falling at the same hours are to be avoided by careful study of the Scheme of Attendance at the end of this volume, which has been drawn up with a view to making possible for every one the selection of a reasonable number of harmonious elective courses that shall not conflict in hours with each other or with prescribed courses. It often happens that some of the courses of one department form valuable supplements to certain courses of another, so that combinations of work under two or more departments are very desirable. In all such cases the best selections can be made only after consultation with officers of one or more of the departments concerned. This applies particularly to the major subject (see page 37).

The following regulations should also be borne in mind:

1. No courses other than those specified in the Announcement may be taken except by students specially qualified to pursue them with advantage and with the consent of the Committee on Instruction.
2. No combination of courses amounting to less than 12 or more than 16 points may be made in any winter or in any spring session without the consent of the Committee on Instruction.
3. No credit will be given for a one-hour course, unless it is taken in connection with and as a supplement to a cognate course.
4. No more than four hours of class work, or its equivalent in laboratory work, or seven hours of class work and laboratory work combined, may be taken on the same day.
5. Tuesday at 1.10 p.m. is the Assembly hour. Academic meetings at which attendance is required are often held at this time, and all students are requested to keep it free for this purpose.
6. Students entering with advanced standing from other colleges will be required to take 12 points of their major at Barnard.
7. Of the points required for the degree, at least 30 must be taken while the student is registered in Barnard College, of which 30 points at least half should be taken during the senior year.
8. The election of courses under the graduate Faculties of Political Science, Philosophy, and Pure Science is restricted to specially qualified seniors, and in some cases juniors, and requires the consent of the head of the department concerned at Barnard, and of the Committee on Instruction. (For further details see page 40.)
9. The election of specific courses in a summer session at Columbia University or elsewhere must be approved by the Committee on Instruction of Barnard College. No student who has received a grade of D or F during the preceding academic year will be allowed to count more than 6 points of work taken in a

summer session, unless the Committee on Instruction shall otherwise decide. In no case may more than three courses or 8 points of work be counted in a summer session in any one year. No summer session course that is passed with a grade below C will be credited toward a Barnard degree.

If a student has taken work in a summer session without the previous approval of the Committee on Instruction, she should submit a report of her summer work within a month of her return to college, either in the winter or in the spring session. Otherwise no credit toward the Barnard degree will be allowed for the work that was taken.

10. Specific courses in University Extension may be credited toward the Bachelor's degree under the following regulations:

(a) The election of extension courses must be approved by the Committee on Instruction and by the Director of University Extension.

(b) Students will not be allowed to exceed a total of 16 points, including the points of extension courses, at one time, save with the special permission of the Committee on Instruction, for reasons of weight.

(c) Students desiring to count these courses toward the degree must obtain in them a grade of at least C.

(d) Courses that are not taken for credit toward the Barnard degree will not be covered by the regular tuition fees but must be paid for over and above those fees.

Time Limit for Counting Work Toward the Degree. — All requirements for a degree must be fulfilled by the candidate within six years from the time of her first matriculation as a freshman in college, whether at Barnard or elsewhere; within four and a half years from similar matriculation as a sophomore; within three years from similar matriculation as a junior; and within one and a half years from similar matriculation as a senior. If the candidate fails to satisfy the requirements within the time here specified, she is to lose credit for all the points gained by her toward the degree unless, in individual cases, the Faculty shall otherwise direct.

The Foreign Language Requirement. — Every student will be allowed one trial a year, in February or in May, until the end of the junior year. A student who does not pass by the end of the junior year may present herself for another examination in September before the beginning of her senior year. If she fails to pass at that time, she will be suspended until the foreign language requirement is satisfied.

A transfer student will be urged to try the test on arrival. If she fails at that time, she will be ranked as unclassified with no promise as to when she may expect to complete the requirements for the degree.

Change of Program. — No change of program, either by adding or by dropping a course, may be made by a student without the written consent of the Committee on Instruction. Except on the initiative of the departments or of the Committee on Instruction, such change will be allowed *only in the ten days preceding the second Saturday of either the winter or the spring session*. (See also paragraph on fees, page 33.)

Absences. — All students are expected to attend regularly and promptly all the exercises in the courses for which they are registered. Any considerable amount of absence or tardiness will result in the lowering of a student's mark

or the loss of one or more points of credit. At the end of each term each student may file in the Registrar's office, on blanks provided for that purpose, a list of her absences and tardinesses with the reasons therefor. After considering these excuses and the reports from the instructors, the Committee on Instruction will adjust marks and credits.

Stated Examinations. — Two series of examinations are held every year, one in January and the other in May. These are the only stated examinations. In 1931, the mid-year examinations begin on Wednesday, January 21, the final examinations on Monday, May 18.

Special Examinations. — Special examinations are held as follows: in the week beginning on the second Monday of the spring session of each year, and within the two weeks preceding the opening of the College in the fall.

Such examinations must be taken in one of the three periods for special or deficiency examinations immediately following the stated examination that was missed. They are open, by permission of the Committee on Instruction, to:

(a) Students who have received F (or D in excess of 6 points), provided that, in the opinion of the instructor and that of the Committee on Instruction, the term work has been good enough to make repetition in class or laboratory unnecessary. Ordinarily F (or D in excess of 6 points) in prescribed work involves repetition of the course.

(b) Students who have been absent, for imperative reasons, from the stated examination in any course provided their term work has been satisfactory.

(c) Other students, in rare instances, for reasons of weight.

In all cases application for permission to take a special examination must be made in writing.

For each and every examination taken at any time other than the stated examination period immediately following the conclusion of the course involved, a fee must be paid to the Bursar before the student is admitted to the examination (see page 34).

Grades and Credit. — The student's performance in a course is rated according to the following grades: A, excellent; B, good; C, fair; D, poor; F, failure. The mark *Incomplete* is given only when the student has obtained, in advance, the permission of the instructor to postpone for a short time the submission of certain outstanding term work which must be made up before a specific grade can be reported. Under the regulations of the Faculty, outstanding work that is not completed within 3 weeks after the end of the session automatically becomes an F.

No student may count for promotion from any class to the next higher class more than six (6) points of D work or may be credited with more than six (6) points of D work during her senior year. In case more than four years is required for her degree, not more than twenty-four (24) points of D work altogether may count for the degree. Of several courses in which a student is marked D she may choose the ones to be counted.

At the end of the sophomore year especially, the records of all students will be carefully scrutinized and only those who have done a considerable amount of good work and shown promise of future development will be permitted to continue in college and pursue the more advanced specialized study of the junior and senior years.

No student will be allowed to graduate on a record that is wholly of C grade or worse; therefore, unless a student does a reasonable amount of work of a grade better than C, she may be dropped from the roll of the College.

Additional Credit for High Standing. — At the end of the winter and of the spring session, when all the reports are filed in the Registrar's office, additional credit for high standing is given as follows:

The mark A in courses aggregating 6 points of work (no course to be counted twice) entitles the student to one point of extra credit, provided she has satisfactorily completed all the work of the session, and has not fallen below the mark B in any course.

Classification of Students. — Matriculated students whose record as to entrance conditions and the completion of prescribed work is satisfactory to the Committee on Instruction, are classified as follows:

Freshmen, those who have completed less than 24 points of academic work.

Sophomores, those who have completed 24 points.

Juniors, those who have completed 54 points.

Seniors, those who have completed 86 points.

In all cases the requirements for promotion must be met in full before the beginning of the winter session.

A student who fails to meet the requirements for advancement from one class to another may, with the consent of the Committee on Instruction, remain in College and repeat the course or courses in which her deficiency exists, or, in the case of elective courses, other courses equivalent thereto in time. She may not, however, register as a non-matriculant or as a special student.

Should a student fail of advancement in two successive years, she shall be permanently dismissed from the College, unless, for reasons of weight, the Committee on Instruction shall otherwise determine.

ADVICE TO STUDENTS

The Dean is always glad to confer with a student regarding any matters that may be of interest to her. Individual instructors may also be consulted at any time by the student regarding her work in their classes.

Before planning her program for the coming year, every student should consult a member of the teaching staff, according to detailed regulations to be announced from time to time by the Committee on Instruction.

Not later than the spring session of her sophomore year, a student should consult the Occupation Bureau regarding opportunities in different occupations which may interest her and the prerequisites thereto.

SCHOLARSHIPS

Purpose. — The College desires that no student of exceptional ability shall be kept away from Barnard because her family has only moderate means. In order to make it possible for such students to come, various scholarships have been established in the college, and there is also a loan fund administered by a competent Alumnae committee, and provision in the Occupation Bureau for enabling students to earn a little money to help pay some of their expenses.

When increasing the tuition fee for 1929-30 to a flat fee of \$380, the Trustees appropriated from the general funds of the College sufficient money to establish a considerable number of scholarships to meet the special needs caused by the additional cost of an education at Barnard. Preference is given to daughters of the professional classes, although scholarships will be awarded to others also.

Number and Value. — There are sixty-four endowed scholarships ranging in value from \$75 to \$700 a year, endowment funds providing supplementary grants varying from \$50 to \$300 each, and nine special funds for the benefit of students who need financial aid in emergencies. There are also the scholarships supported from the general income of the College. These are of the following types:

1. Scholarships of a value of \$500 a year for students residing in Brooks or Hewitt Hall, awarded on the merit of the student's entrance record, if she is entering as a freshman, or on her record at her former college, if she is transferring to Barnard from another institution. They may be held for one year, provided the student maintains a satisfactory record, and at the end of the year, if her general standing warrants, she will receive further scholarship aid.
2. Scholarships of \$300 a year each, for students not living at the College. They will be awarded and held under the same conditions as those described above.
3. Grants ranging from \$25 to \$400, which will be awarded to students of scholarly ability and promise in order to meet their special financial needs.

Conditions. — All scholarships, except a few awarded on the nomination of outside organizations, are competitive, — that is, they are awarded by the Faculty Committee on Scholarships according to the scholarly ability, general character, and financial need of the applicants. Some are given to entering students for excellence in their entrance examinations and other credentials accepted for admission; others are awarded to students already in Barnard for excellence in their college work.

If a student fail to maintain a grade of at least C in all courses which she pursues, or if for any other reason she show herself an unsatisfactory candidate, she shall forfeit her scholarship and shall be ineligible for re-election the following term. No student with entrance conditions unremoved, or with a grade below C in the term previous to that in which she is asking for help, shall be eligible for a scholarship. It is unlikely, however, that any student will receive a scholarship whose marks do not average B or better.

If a student reside outside Brooks Hall or Hewitt Hall, she shall not be eligible for an award greater than \$400 for any one academic year.

Applications from Students in College. — On or before the first of March of each year all applications for scholarships must be filed at the Dean's office upon special blanks to be obtained there.

Applications from Entering Students. — On or before the first of May applications for scholarships should be in the hands of the Committee on Admissions. Blanks for this purpose may be obtained in the Office of Admissions.

In order to qualify for the receipt of her stipend, the holder of a scholarship should report at the office of the Registrar not later than the first day of the academic year.

COMPETITIVE ENTRANCE SCHOLARSHIPS

These, subject to the foregoing general regulations for scholarships, are as follows:

* Brooklyn Scholarships (\$150 each)	12
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Founded in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Low of a memorial building for the University Library. They are open to students who have received their training in either the public or the private schools of Brooklyn, N. Y., and are residents of that city. Three of these scholarships will be awarded annually to qualified competitors who pass in June without conditions the best entrance examinations. They may be held for the entire college course, but a holder, while retaining the title 'Brooklyn Scholar,' may transfer the income to any properly qualified candidate from Brooklyn without having her action made a matter of public record.

* Carpenter Residence Scholarships (for annual income, see below) . . .	8
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Founded in 1919 with a bequest from the late Horace W. Carpenter. Eight Residence Scholarships, four of which carry an income of \$700 a year apiece, beginning in 1926, and four an income of \$400, are open to women who are not residents of New York City or its vicinity. They are awarded on the merits of entrance examinations and on the candidates' general character and power of leadership. Preference is given to the students taking the examinations of the College Entrance Examination Board. The scholarships may be held for one year only. However, if the student maintains a high average in college she will undoubtedly receive further scholarship assistance. The holders are required to reside in Brooks Hall, or Hewitt Hall, the Barnard halls of residence. One of each will be awarded each year.

* Lucille Pulitzer Scholarships (for annual income, see below)	14
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Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer.

Eight Residence Scholarships, four of which carry an income of \$700 a year apiece, beginning in 1926, and four an income of \$300, are open to women who are not residents of New York City or its vicinity. They are awarded on the same terms as the Carpenter Residence Scholarships listed above. One \$700 and one \$300 scholarship will be awarded each year.

Three New York City Scholarships are awarded to students entering the College from the city of New York who are found to have passed excellent entrance examinations and to be worthy of financial aid. They may be held for the first three years of the college course only.

The first (a), founded in 1899, carries an annual income of \$400 and will be awarded in 1930, 1933, and corresponding years.

The second and third, given in 1903, carry annual incomes of \$325

* Open to freshmen.

each; (b) will be awarded in 1931 and 1934, (c) in 1932 and 1935, and corresponding years.

One Competitive Freshman Scholarship (\$300) is awarded annually on the merits of the entrance examinations and on the candidate's general character. It may be held for one year only.

Two Scholarships (\$200 each) may be awarded to students of any class who have shown exceptional scholarly ability and who are in need of assistance.

* Jessie Kaufmann Scholarship 1

The income of a fund of \$4,000.

Founded in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann. Awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

Martha T. Fiske Scholarship 1

The income of a fund of \$5,000.

Founded in 1911 by Miss Anna E. Smith, in memory of her sister, Mrs. Martha T. Fiske-Collord. It is awarded, on the basis of scholarly ability and general character, to some deserving candidate not a resident of New York City or its suburbs, and may be held throughout the college course, provided the recipient continues to maintain a satisfactory standing.

GENERAL SCHOLARSHIPS

These, subject to the general regulations for scholarships, are as follows:

Ella Weed Scholarship 1

The income of a fund of \$3,000.

Founded in 1895 by the pupils of Miss Anne Brown's School in memory of Miss Ella Weed, who was chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence.

Veltin School Scholarship 1

The income of a fund of \$3,000.

Founded in 1905 by the alumnae of Mlle. Veltin's School.

Jennie B. Clarkson Scholarship 1

The income of a fund of \$3,000.

Founded in 1898 by the late Mrs. W. R. Clarkson.

Emily James Smith Scholarship 1

The income of a fund of \$3,000.

Founded in 1899 by the late Miss Emily H. Bourne in honor of Miss Smith, then Dean of Barnard College.

* Open to freshmen.

Anna E. Barnard Scholarship	1
The income of a fund of \$3,000.	
Founded in 1899 by the late Miss Emily H. Bourne in honor of Mrs. John G. Barnard.	
Brearley School Scholarship	1
The income of a fund of \$3,000.	
Founded in 1899 by pupils and former pupils of the Brearley School.	
Eliza Taylor Chisholm Memorial Scholarship.	1
The income of a fund of \$3,000.	
Founded in 1901 by the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend.	
Graham School Scholarship	1
The income of a fund of \$3,000.	
Founded in 1907 by the Graham Alumnae Association.	
Mrs. Donald McLean Scholarship.	1
The income of a fund of \$3,000.	
Founded in 1906 by the New York Chapter of the Daughters of the American Revolution. It is awarded, in conference with a representative of the Chapter, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.	
*Emma Hertzog Scholarship	1
The income of a fund of \$3,000.	
Founded in 1904 by gifts from residents of Yonkers, N.Y. It is awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school who is entering Barnard College.	
Mrs. Henry Clarke Coe Scholarship.	1
The income of a fund of \$3,600.	
Founded in 1910 by the National Society of New England Women, now the New York City Colony of the National Society. It is awarded, on the nomination of the chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage, and after the award is once made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman.	
Eleonora Kinnicutt Scholarship.	1
The income of a fund of \$5,000.	
Founded in 1911 in memory of Mrs. Francis P. Kinnicutt, who was a Trustee of Barnard College. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1930 and 1933.	

* Open to Freshmen.

Emma A. Tillotson Scholarship.	1
The income of a fund of \$5,000.	
Founded in 1910 by the late Mrs. Luther G. Tillotson. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1931 and 1934.	
William Moir Scholarships	2
The income of a fund of \$10,000.	
Founded in 1912 by the late Mrs. William Moir, in memory of her husband.	
The first (a) is awarded at the end of the freshman year to a student of exceptionally high standing who is in need of assistance, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1932 and 1935.	
The second (b) may be awarded to a student of any class who has shown exceptional scholarly ability and who is in need of assistance.	
Mary Barstow Pope Scholarship	1
The income of a fund of \$4,000.	
Founded in 1913 in memory of Mary Barstow Pope, sometime teacher in Miss Chapin's School, by her friends, her fellow-teachers, and her pupils. It is open to any undergraduate of Barnard College for the whole or any part of her course, and is awarded on the nomination of a self-perpetuating committee representing the founders.	
Charles E. Bogert Memorial Scholarship, and Anna Shippen Young Bogert Memorial Scholarship	2
The income of a fund of \$10,000.	
Founded in 1913 with a bequest from the late Annie P. Burgess. They are awarded to worthy and deserving students of good Christian character who are unable to pay their own expenses.	
Martha Ornstein Brenner Scholarship	1
The income of a fund of \$4,000.	
Founded in 1915 by her friends in memory of Martha Ornstein Brenner, 1899.	
Barnard School Alumnae Scholarship	1
The income of a fund of \$4,000.	
Founded in 1916 by the alumnae of the Barnard School for Girls. It may be awarded to a student in any class, preference being given to nominees of the school.	
Fanny I. Helmuth Scholarship (at least \$262)	1
Established on a temporary basis by the Daughters of Holland Dames in honor of Fanny I. Helmuth. It is awarded in conference with a representative of the society to a student of Dutch descent who is in need of aid.	

SCHOLARSHIPS

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Anna M. Sandham Scholarship	1
The income of a fund of \$10,000.	
Founded in 1922 with a bequest from the late Anna M. Sandham.	
Eleanor Butler Sanders Scholarship	1
The income from a fund of \$10,000.	
Founded in 1922 with a bequest from the late Henry M. Sanders.	
Scholarship in English	1
The income of a fund of \$5,000.	
Founded in 1920 by an anonymous donor. It is awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who stands out as particularly deserving of aid, the scholarship may be used, at the discretion of the Faculty Committee on Scholarships, to assist a student majoring in some other subject.	
Lucille Pulitzer Supplementary Scholarships (\$50 each)	44
Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They are awarded to worthy and needy students, and may be used to supplement larger scholarships or themselves combined into scholarships of \$100 or more. The money is applicable to tuition fees, residence fees, or, in special cases, general outside expenses.	
Augusta Larned Scholarship	1
The income of a fund of \$10,000.	
Founded in 1924 with a bequest from the late Augusta Larned.	
Mary E. Larkin Joline Scholarship	1
With an annual value of \$300.	
Founded in 1927 with a bequest from the late Mary E. Larkin Joline. It is awarded to a student who is specializing in music.	
*Charlotte Louise Jackson Scholarship	1
The income of a fund of \$5,000.	
Founded in 1928 with a bequest from the late Fannie A. Jackson. It is awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers.	
*William Klein Scholarship	1
An annual gift of \$500 given in 1930 by William Klein, to be awarded a student of high standing either on admission or later in the college course.	

* Open to freshmen.

**SPECIAL FUNDS FOR THE AID OF NEEDY AND
DESERVING STUDENTS**

Arthur Brooks Fund.

A fund of \$5,000, given in 1897 by Miss Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence.

Fiske Scholarship Fund.

A fund of \$5,000, given by the late Mrs. Martha T. Fiske-Collord, the income of which is placed at the disposal of the Dean of Barnard College.

George W. Smith Scholarship Fund.

A fund of \$5,000, given in 1906 by the late Mrs. Martha T. Fiske-Collord as a memorial to Mr. George W. Smith, who was a Trustee of Barnard College. The income of the fund is placed at the disposal of the Dean of the College.

Charles Stewart Smith Scholarship Fund.

Established in 1911 in memory of the late Charles Stewart Smith, who was a Trustee of Barnard College. It provides an annual income of \$250, which is used to assist needy and deserving students.

Mary Gertrude Edson Aldrich Scholarship Fund.

A fund of \$1,000, given by Mrs. James Herman Aldrich. The income is used to assist in her senior year a student who has shown in her college life the moral qualities which go to the making of fine womanhood.

Scholarship Fund.

A fund of \$9,680, established by general subscription through the Scholarship Committee of the Board of Trustees.

Carpentier Scholarship Fund.

A fund of \$200,000, the bequest of the late Horace W. Carpentier. The income remaining after the payment of the Carpentier Residence Scholarships described on page 66 is placed at the disposal of the Dean for distribution in scholarships of varying amounts, according to the needs of deserving students.

Caroline Church Murray Fund.

A fund of \$5,000, established in 1918 by George Welwood Murray in memory of Caroline Church Murray. The income is placed at the disposal of the Dean, to be used in aid of needy and deserving students.

Irma Alexander Goldfrank Fund.

A fund of \$2,105, established in 1919 by the friends of the late Irma Alexander Goldfrank, 1908. The income is placed at the disposal of the Dean, to be used in aid of needy and deserving students.

Alumnae Scholarship Fund.

A fund of approximately \$1,400 established by the Class of 1912 at its Tenth Reunion, and subsequently increased by a legacy from the estate of Julia Ludlow Young, an alumna. The income is to be used to help needy and deserving students.

Thomas F. Clark Students' Loan Fund.

A fund of \$100,000, the bequest of the late Mrs. Fanny Foster Clark. The income is to be used to aid needy and deserving students.

Edna Henry Bennett Memorial Scholarship Fund.

A fund of \$1,630, established in 1927 by friends of the late Edna Henry Bennett, 1915, Lecturer in Zoölogy. The income is to be awarded by the Department of Zoölogy to Barnard students for work at the Marine Biological Laboratory, Woods Hole, Massachusetts.

Class of 1919 Decennial Fund.

A fund of \$5000, established in 1929 as a 10th reunion gift by the class of 1919, to endow a room in Hewitt Hall for the use of a deserving and needy student.

STUDENTS' LOAN FUND

A Students' Loan Fund of \$12,000 is maintained by the Associate Alumnae. From this fund loans are made at a low rate of interest to students in need of financial assistance, whether for college tuition and residence fees or for outside expenses. The loans and interest are to be repaid within seven years after graduation. Under the rules of the Students' Loan Committee, no money may be granted to a freshman in her first winter or spring session; it may be granted in the second only in exceptional cases. The chairman of the Committee, to whom inquiries should be addressed, is Miss Louise Odencrantz, 407 Second Avenue, New York City.

The operation of this fund as a loan fund, as distinct from the special scholarship funds already mentioned, makes it possible to keep the capital in continuous use by successive generations of students. While the Committee does not deem it advisable to lend a very large amount to any one student, it has not found that loans of moderate size prove a burden on the borrowers. The Committee desires to make the fund as helpful as possible and wishes therefore to have students in need of assistance apply to it freely.

CAROLINE DUROR MEMORIAL GRADUATE FELLOWSHIP

Established by an anonymous donor in 1912. It is of an annual value of \$600. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. This fellowship is awarded each year as an academic honor to that member of the graduating class of Barnard College, who, in the opinion of the Faculty, shows most promise of dis-

tinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. This Fellowship is not to be applied for, but is awarded each year as soon as possible after the mid-year examinations. Students who have graduated in February are eligible, as well as those who are to graduate in June.

MARGARET MEYER GRADUATE SCHOLARSHIP

An annual graduate scholarship of a value of \$75, established by Mrs. Alfred Meyer in 1923 in memory of Margaret Meyer Cohen of the Class of 1915, awarded annually to a member of the graduating class for training in secretarial work.

PRIZES

The following prizes are awarded annually, on the recommendation of the appropriate departments of the Faculty of Barnard College, in accordance with the special conditions named below. No prize will be awarded to any student who falls below grade C in any course during the year in which she is a competitor.

Herrman Botanical Prize. — A prize consisting of the income of a fund of \$1,000, founded by the late Mrs. Esther Herrman, is awarded annually to the most proficient undergraduate student in botany.

Kohn Mathematical Prize. — A prize consisting of the income of a fund of \$1,000, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

The Jenny A. Gerard Medal. — The Jenny A. Gerard Gold Medal, given in 1908 by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student of American birth in Barnard College who is most proficient in American Colonial History.

Speranza Prize in Italian. — A prize consisting of the income of a fund of \$1,000, founded by a former student in memory of the late Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard from 1890 until 1911, is awarded annually to a student in Barnard College for excellence in Italian.

von Wahl Prize. — A prize consisting of the income of a fund of \$1,300, founded in 1915 in memory of Constance von Wahl, 1912, President of the Undergraduate Association, is awarded annually to a student for excellence in zoölogy, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded.

Caroline Gallup Reed Prize. — A prize consisting of the income of a fund of \$1,000, founded in 1916 by Mrs. William Barclay Parsons in memory of her

mother, Mrs. Sylvanus Reed, for the recognition of special study in the subject of the origin of Christianity and early church history, is awarded annually to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by May 1. A syllabus of the period to be covered may be obtained from the Chaplain of the University.

Jean Willard Tatlock Memorial Prize. — A prize consisting of the income of a fund of \$1,250, founded in 1917 by her friends in memory of Jean Willard Tatlock, 1895, is awarded annually to the undergraduate student most proficient in Latin.

The Helen Prince Memorial Prize. — A prize consisting of the income of \$1,200, founded in 1921 by Mr. Julius Prince in memory of his daughter, Helen C. Prince, of the Class of 1922, is awarded annually to an undergraduate student in Barnard College for excellence in dramatic composition.

Dean Prize in German. — A prize consisting of the income of \$1,000, one-fifth of a fund of \$5,000 established in 1925 by Mr. Edward D. Adams for the promotion of the study of German language and literature in Barnard College, is awarded annually to that member of the senior class at graduation who has throughout her course done the best work in the German language and literature.

The following prizes of Columbia University are by their terms open to students of Barnard College:

Bennett Prize. — A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a baccalaureate degree who pursue courses amounting to six hours a week in the School of Political Science. The subject for the essay to be handed in May 1, 1931, is: 1. "The Policy of the United States toward Turkey, 1914—1929." 2. "The Desirability of National Administration by Commission."

The Bunner Medal. — The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for the essay to be handed in May 1, 1931, is "John Brown among the Transcendentalists."

Earle Prize in Classics. — A prize of \$50, established in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, is open for annual competition to all candidates for the degree of Bachelor of Arts. It is awarded partly on the basis of the regular work of the year in Greek and in Latin, partly on the basis of a special examination. The special examination covers specified portions of Greek and Latin literature, sight reading in Greek and in Latin, and prose composition in Greek and in Latin. The special subjects for 1931 are Euripides, *Hecuba*, on the basis of Hadley's edition (Pitt Press) Livy, *Book XXVII*, on the basis of Stephenson's edition (Pitt Press).

For the award in 1931, the examination will be held in January. Students are urged to do much of their work for the examination during the preceding summer vacation.

The Caroline Phelps Stokes Prize. — The Caroline Phelps Stokes Prize of \$40 is awarded annually at Commencement to that student who, having been regularly enrolled in Columbia College or Barnard College or Teachers College as a candidate for an academic degree, for not less than two sessions, winter or spring, shall be deemed to have written the best essay upon an assigned topic bearing upon the rights of man. The subject for the essay to be handed in May 1, 1931, is: 1. "The right of an individual to jury trial considered in relation to the potential breakdown of the jury system." 2. "The desirability of extending right of eminent domain to privately owned public utilities."

Greek Prizes. — Two prizes, aggregating \$100, are awarded annually at Commencement to those students passing the best entrance examination in three years of Greek combined with the subsequent curricular Greek in the freshman year.

RESIDENCE HALLS

Brooks Hall and Hewitt Hall (see p. 15), the residence halls for Barnard College students, will open on Friday, September 19, 1930, and will close on Friday, June 5, 1931. Candidates for admission or students who wish to secure accommodations in the halls during the week of the June entrance examinations or the September entrance or deficiency examinations should make arrangements directly with the Assistant to the Dean in charge of Residence Halls, not later than June 1 or September 1, respectively.

Full information in regard to the situation and cost of rooms and the advance deposit is published in a separate pamphlet, to be had on application to the Assistant to the Dean in charge of Residence Halls. All correspondence regarding accommodations in the Halls should be addressed to the Assistant to the Dean in charge of Residence Halls, Barnard College, New York, N.Y. All checks and money orders should be made payable to the order of Barnard College. For the dormitory fees see page 35.

The post-office address for resident students is Brooks Hall, 3001 Broadway, New York, N.Y.

For regulations in regard to the residence of students who do not live in Brooks Hall or in Hewitt Hall, see page 16.

HEALTH AND PHYSICAL EDUCATION

The University Medical Officer, Dr. William H. McCastline, the College Physician, Dr. Gulielma F. Alsop, and the Head of the Department of Physical Education, Prof. Agnes R. Wayman, by means of lectures, required exercise adapted to the needs and condition of the individual, and personal advice endeavor to promote the health of the students. The sanitation of the college is under their supervision. Assistant physicians, two trained nurses and six instructors work under their direction.

Barnard Hall contains a gymnasium, swimming pool, and exercise rooms. The students have also, on Milbank Quadrangle, tennis courts and a practice field for games. Three handball courts have been constructed on the roof of the building, which is also provided with equipment for "moderate" games for the students physically unable to take part in more strenuous activities. Two rest rooms are reserved for the use of the students.

A physical and medical examination is required of each student upon entrance, and at the end of the first year and the fourth year. A motor ability test and a swimming test are also given upon entrance. Frequent medical inspections are given each student. These examinations are made the basis for determining the type of physical exercise a student should take. Special remedial and corrective classes are provided for students requiring special individual attention. When necessary, recommendations are made to the Committee on Instruction regarding the student's academic program. As far as possible the work in the Department of Physical Education is conducted in the open air.

THE UNIVERSITY LIBRARY

The General Library of the University contains about 1,166,621 volumes, exclusive of unbound pamphlets and doctoral dissertations. The various departments of instruction have also special libraries in connection with their lecture-rooms and laboratories. The Avery Architectural Library, the Law Library, the Ella Weed Library of Barnard College, the Bryson Library of Teachers College, and the libraries of the College of Physicians and Surgeons and the College of Pharmacy, are all available to students of the University.

For the convenience of the undergraduates of Barnard College there is maintained in the Ella Weed Library in Barnard Hall a carefully selected collection of reference books of about 34,910 volumes.

UNIVERSITY PRESS BOOKSTORE

A University bookstore is maintained in the building of the School of Journalism under the auspices of the Columbia University Press, where officers and students may purchase books and stationery at stated discounts from list prices.

ASSEMBLY AND CHAPEL

University or College assembly is held Tuesdays at 1:10 o'clock. All students are expected to attend.

In St. Paul's Chapel, the chapel of Columbia University, service is held every week-day except Saturday at 12 o'clock and on Sunday afternoon at 4 o'clock. At these services attendance is voluntary.

A special University service is held in St. Paul's Chapel on the Tuesday preceding the Thanksgiving recess.

OCCUPATION BUREAU

The Occupation Bureau registers alumnae and students in search of employment or professional advancement and recommends them to employers who apply to the College.

In general, students are not advised to undertake employment during their first winter or spring session in college, since it is difficult for them to estimate at first the amount of time that can safely be spared from academic work. That is, the College prefers that they do not enter until they have funds available for the first year's expenses. After the first session or first year an able student in good health can usually arrange to spare three or four half-days a week, and can earn a part of her expenses. Summer work may also be obtained. Most unskilled student work is, however, paid at a low rate. No student who carries a full course can expect to earn all of her expenses, both tuition and living.

Both students and graduates are given as much information as possible about opportunities in different lines of work and the requirements therefor. For each student a personal record including scholastic achievement, rating in the entrance psychological test, extra-curricular interests, vocational interests and experiences, etc., is kept in this office, in order that the vocational information given may be as helpful as possible. The Vocational Advisory Committee of the Associate Alumnae coöperates with the Bureau; and members of the Faculty assist students with information in regard to particular vocations.

The College keeps in touch with the Personnel Research Federation and the Coöperative Bureau for Women Teachers, both of New York City, of which it is a contributing member, and utilizes the information collected by them.

STUDENT ORGANIZATIONS

Under the system of self-government in use in the College, the various student organizations are supervised by the Student Council and the Representative Assembly, subject to the general approval of the Faculty. The Student Council also administers the Honor Code, in accordance with which all students on entering Barnard College agree to maintain a high standard of honor in examinations and all phases of college life.

Every regular or unclassified student is a member also of the Undergraduate Association and as such is at liberty, on payment of the student fee, to take part in all general undergraduate and class functions, to make use of all privileges of the Athletic Association, and to receive the College weekly paper and literary quarterly. Special students may become special and associate members of the association, if they so desire.

STATISTICS

STATISTICS

	1889 to 1890	1894 to 1895	1899 to 1900	1904 to 1905	1909 to 1910	1914 to 1915	1919 to 1920	1920 to 1921	1921 to 1922	1922 to 1923	1923 to 1924	1924 to 1925	1925 to 1926	1926 to 1927	1927 to 1928	1928 to 1929	1929 to 1930
UNDERGRADUATES, REGULAR:																	
Seniors	9	40	83	62	*123	87	103	*72	*95	*107	*126	155	*175	*143	*192	227
Juniors . . . . .	..	18	40	71	122	110	190	187	203	219	256	259	258	304	318	237
Sophomores . . . . .	..	18	37	75	109	191	193	174	173	168	192	234	228	245	253	244
Freshmen (regular)	4	26	54	110	188	240	224	222	220	270	296	271	316	313	304	314	
Freshmen (partly regular)	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Unclassified students . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
SPECIAL STUDENTS:																	
Matriculated . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Non-matriculated . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Departmental (1889-1896)	22	29	62	27	54	69	61	62	67	33	39	39	33	37	35	24	
Musio students (1896-1904, 1914-1915)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
GRADUATE STUDENTS (1890-1900):																	
TOTAL STUDENTS PRIMARILY REGISTERED AT BARNARD	36	119	315	366	535	733	755	748	735	822	949	980	1049	1086	1073	1146	
STUDENTS FROM COLUMBIA UNIVERSITY . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
STUDENTS FROM TEACHERS COLLEGE . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
STUDENTS FROM SCHOOL OF PHILANTHROPY . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTAL STUDENTS FROM OTHER PARTS OF THE UNIVERSITY . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTAL REGISTRATION:																	
DEGREES CONFERRED:																	
A.B.	36	119	333	505	794	869	873	829	828	925	1116	1183	1226	1222	1267	1292	
B.S. . . . .	..	8	39	83	88	141	139	168	151	157	177	198	212	250	190	254
A.M. (1894-1900) . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ph.D. (1895-1900) . . . . .	..	1	18	2	5	..	..	..	..	..	..	..	..	..	..	..

TOTAL BACHELORS' DEGREES CONFERRED 1893-1929: A.B., 4018; B.S., 77.

* The figures for seniors include students counting the first year in a professional school of the University in place of the fourth year at Barnard as follows:

1914-15	3	in Education
1921-22	1	in Journalism
1922-23	1	in Journalism
1923-24	2	in Journalism, 1 in Medicine

DEPARTMENTAL STATEMENTS

The following general regulations apply to all courses. The paragraphs on "The Program of Studies," pp. 35-37, should be carefully read.

Admission to courses depends upon completion of the prerequisites as stated for each course. In all cases the requirements as to prerequisites for any course must be completed before the beginning of the winter or of the spring session in which the course is given. Where no prerequisite is stated and where no limitation is noted, the course may be taken for a degree by any student of the college.

When an announced course has not been applied for by at least three candidates for a degree, the instructor may withdraw it.

Where the hours for laboratory work are not given either in the departmental statement or in the scheme of attendance, they must be arranged after consultation with the officer in charge of the course.

Courses designated by capital letters are prescribed. Elective courses are designated by numbers, odd numbers indicating the winter session, and even numbers the spring session. A compound course is therefore designated by an odd number and the succeeding even number. The numbers from 1 to 99 inclusive are given to courses open only to undergraduates; the numbers from 101 to 199 inclusive are given to courses open to both undergraduates and graduates, the lower numbers in each case being used for the introductory courses.

A Roman numeral in parentheses after the hour indicates the section number (*e.g.*, M., W. and F. at 9 (I), at 10 (II), etc.).

In the statement of each course the prerequisites are indicated. When no department is named, it is to be assumed that the reference is to a numbered course in the same department. *No credit in points will be given for a course which is taken subsequent to the course or courses for which it is in any way a prerequisite, though not formally so announced. Courses must be taken for the credit value announced — for no more or no less.*

A hyphenated course (*e.g.*, History 1-2) is regarded as a full-year course, of which the first half is always assumed to be a prerequisite for admission to the second half, and, except for reasons of weight, and with the written consent of the instructor, no credit will be given for work dropped at the mid-year or before the completion of the course. A course of which the index signs are separated by a comma (*e.g.*, English 3, 4) is regarded as a divisible course of which the first half may be taken separately. *Admission to the second half of a divisible course is granted only when all prerequisites have been met and the written consent of the instructor obtained.*

Courses marked with an asterisk (*) are given at Columbia University (Cf. p. 40). Professional courses and extension courses that are not taken for credit toward the 120 points required for the Barnard degree will not be covered by the regular tuition fee but must be paid for over and above that fee.

Courses marked with a dagger (†) are given at Teachers College. *Work at Teachers College mentioned herein may be pursued only by regularly enrolled stu-*

dents of Barnard College and only when counting for a Barnard College degree. Certain courses not here specified as being open at Teachers College may, through the courtesy of Teachers College and with the consent of the Committee on Instruction, be taken by such students.

For further detailed information in regard to topics, text-books, or methods in any particular course students are referred to the instructors.

ANTHROPOLOGY

A major in anthropology will satisfy the requirement in Group III. Students majoring in this subject must satisfy the 14-point requirement in Group II in subjects other than anthropology. For other students, beginning with the Class of 1932, courses in anthropology will count toward the group requirement as indicated for each course by the statement made in connection with the point value.

A major in Anthropology. — Students majoring in anthropology will be required to take in Anthropology — Courses 1, 2, or 3, 4.

Other fields — A reading knowledge of German and courses which will vary with the special interest of the student and must be arranged in consultation with the major department.

Honors Course (see page 37). — Candidates for a degree with honors will be required to submit a paper which is the result of research in some special subject. The comprehensive examination will include a knowledge of anthropological problems, theories and methods. Required courses will differ for individual students but the following are suggested: a reading knowledge of French and German; fundamentals of natural sciences or social sciences, or both; mathematics, preferably through integral calculus.

[1, 2 — Introduction to historical anthropology. Professor REICHARD. 8 points in Group III.

Open to all excepting freshmen. Either half of this course may be taken separately.

The early history of mankind; the antiquity of man; the races of man; the distribution of languages; the independent development in the new world and the old; characterization of the tribes of Africa, Australia, Polynesia, Asia, prehistoric Europe and America.

Not given in 1930-31.]

Courses 1, 2 and 3, 4 are ordinarily given in alternate years.

3, 4 — Introduction to comparative anthropology. Professor REICHARD. 8 points in Group II.

M., W. and F. at 1, and weekly visits to the American Museum of Natural History at hours to be arranged. Students who have taken either Course 1, 2 or Course 3, 4 need not repeat the Museum work for the second course but may satisfy the fourth point by reading and research.

Open to all excepting freshmen. Either half of this course may be taken separately.

The relation between race and mental faculties; the characteristics of languages; cultural types and areas; historical influences determining cultural development; the growth of civilization; the historical development of industries, forms of art, society and religion. The application of anthropological data to modern social problems; the development of reason; the emotional attitudes determining behavior; the influences of patterns determining lines of thought and action; the individual and society.

6 — Language and thought. Professor REICHARD. 2 points in Group I.

Tu. and Th. at 11.

Open to all excepting freshmen.

Relationship between language, race and culture; phonetics; grammatical processes and categories; thought categories; types of languages; value of linguistics in anthropological research. All of these subjects will be treated with special reference to the languages of primitive peoples.

107 — Traditional literature. Professor REICHARD. 3 points in Group I.

M., W. and F. at 11.

Open to juniors and seniors.

Primitive literature in the old and new worlds. Form and content of tradition: the proverb, riddle, folk tale, myth, fairy-tale, romance, adventure, novel, verse and song. Types of character and plot. Mythological styles defined.

This course aims to acquaint students with valuable material which is not generally known, rather than to develop mythological theories, although the latter will be briefly discussed.

108 — The art of primitive man. Professor REICHARD. 3 points in Group I.

M., W. and F. at 11.

Open to juniors and seniors.

Control of technic; geometrical and representative design. Art of various groups defined. A study of proportion, of design, line and mass; of rhythm, symmetry and balance; of color. The attitude of the artist and of the social group. Primitive architecture. Theories of art.

[**109 — Primitive social life.** Professor REICHARD. 3 points in Group III.]

Open to juniors and seniors.

The organization of the family, sib, totem and association; kinship and marriage customs; rank, property, wealth, inheritance, position of women, education; birth, puberty and funeral customs; political organization; the relation of the individual to his environment and comparisons between modern and primitive societies.

Not given in 1930-31.]

[**110 — Man and the supernatural.** Professor REICHARD. 3 points in Group III.]

Open to juniors and seniors.

Primitive religion: questions of taboo, ancestor worship, the fetish, animism, shamanism, the vision, priesthood and witchcraft; deities, sacrifice and ceremonialism. Rationalistic and emotional factors in religious life. The relation of religion to other phases of culture. Theories of origins and development.

Not given in 1930-31.]

More advanced courses given at Columbia University are described in the Announcement of the Division of Philosophy, Psychology and Anthropology.

ASTRONOMY

***1, 2 — General introductory course.** Mr. ECKERT. 6 points.

Tu. and Th. at 11, and observatory hours to be arranged.

Prerequisite, Mathematics 1, or 7-8.

BOTANY

A major in Botany. — Students majoring in botany will be required to take in Botany — Courses 51-52; 53-54 or 55-56; and such other courses, subject to the approval of the department, as meet the particular needs and purposes of each student.

Other fields — At least one year's work in chemistry and zoölogy, a reading knowledge of a modern foreign language, and other courses according to the special needs of the student.

Honors Course (see page 37). — The comprehensive examination assumes (a) a knowledge of the morphology, physiology, and classification of plants, (b) a more thorough acquaintance with a particular field of botany, including work on a special problem in this field; (c) familiarity with the history of botany and subjects requisite for and cognate to a study of the major topic.

51-52 — Principles of the morphology, physiology, and classification of plants. Professors SINNOTT and CAREY, Misses WALSH and ——. 8 points.

Lectures, M. and W. at 11, and 4 hours of laboratory work, M. and W., 1-3 or Tu. and Th., 9-11, or Tu., 2-4 and Th., 1-3.

53-54 — Comparative morphology and development of plants, study of types. Professor HAZEN. 8 or 10 points.

Tu. and Th. at 9, and 4 or 6 hours of laboratory work, to be taken on Tu. and Th. in so far as possible.

Prerequisite, Course **51-52**, or its equivalent.

55-56 — Structure and relationships of flowering plants. Professor HAZEN. 6 or 8 points.

Hours to be arranged for a conference and 4 or 6 hours of laboratory work.

Prerequisite, Course **51-52**, or its equivalent.

149 — Principles of genetics. Professor SINNOTT. 3 points.

Tu. and Th. at 3, and 2 hours of laboratory work, Tu., 4-6 (or by arrangement).

Prerequisite, a year of college work in either botany or zoölogy.

151-152 — Bacteria and ferment fungi. Professor CAREY and Miss COBB. 10 points.

M. and F. at 1, and 6 hours of laboratory work, M., 9-12, 2-5, and W., 9-12, 1-5, or hours to be arranged.

Prerequisite, Course **51-52**, or its equivalent, and a minimum of one year's work in college chemistry. Open only to properly qualified juniors and seniors.

153 — Physiological anatomy of vascular plants. Mrs. RICHARDS. 5 points.

Tu. and Th. at 11, and 6 hours of laboratory work, in so far as possible on Tu., 2-5, and Th., 1-5

Prerequisite, Course **53-54** or **55-56**, except by special permission of the instructor.

[**154** — Physiology of plants from the standpoint of nutrition. Mrs. RICHARDS. 5 points.

Prerequisite, Course **153**, or the special permission of the instructor. Some knowledge of chemistry is also essential.

Not given in 1930-31.]

Courses **154** and **156** are ordinarily given in alternate spring sessions.

156 — Physiology of plants from the standpoint of growth. Mrs. RICHARDS. 5 points.

Tu. and Th. at 11, and a minimum of 6 hours of laboratory work, in so far as possible on Tu., 2-5, and Th., 1-5.

Prerequisite, Course **153**, or the special permission of the instructor. Some knowledge of chemistry is also essential.

157 — Embryology and microscopical methods. Professor HAZEN. 4 points. Hours to be arranged for 8 hours of laboratory work with occasional lectures. Open to students only after consultation with the instructor.

Practice in methods of microscopical technic, with the study of the embryology of one or more types.

158 — Structure and development of algae. Advanced course. Professor HAZEN. 1 lecture, and 6 or 8 hours of laboratory work. 4 or 5 points.

Hours to be arranged.

Prerequisite, Courses **51–52** and **53–54**.

Special attention may be given to algae of water supplies.

161, 162 — Advanced morphology and physiology. Professors SINNOTT, HAZEN and CAREY, and Mrs. RICHARDS.

Hours and credits by arrangement.

Work will be planned to suit the needs of students after consultation with the instructors. This course may be taken in successive years.

CHEMISTRY

A major in Chemistry. — Students majoring in chemistry will be required to take in Chemistry — Courses 5–6, 63, 64, and 41–42, or 65, 66.

Other fields — Physics — a year's work in general physics;

Mathematics 1, 22 or 7–8. A course in calculus is advised.

A reading knowledge of German to be acquired by the beginning of the 3rd year's work.

A reading knowledge of French is also necessary for students specializing in chemistry.

Honors Course (see page 37). — The comprehensive honors examination assumes (a) knowledge of inorganic, organic, physical and analytical chemistry; (b) a more thorough acquaintance with one of these divisions and of a special problem in this; (c) the history and present trend of chemistry; (d) mathematics, physics, French and German.

5–6 — General inorganic chemistry. Professors REIMER and KELLER, and Mrs. FISHER. 8 or 10 points.

Lectures: Tu. and Th. at 10 and a third hour, S. at 10 or F. at 1. The S. hour is intended primarily for freshmen.

Laboratory: For students who are beginning the subject (I) Tu., W. or Th. 2–4:30 (8 points); (II) Th., 2–4:30 and Tu. or W., 2–4:30 (10 points).

For students who have passed the entrance examination in chemistry (III) M., 2–4:30 (8 points); (IV) M. and W., 2–4:30 (10 points). In order to obtain full credit for the course a student who has passed the entrance examination in chemistry must take laboratory section (III) or (IV) and lectures on Tu., Th. and S. at 10.

Students intending to enter a medical school should register for laboratory section (II) or (IV).

Prerequisite or parallel, Mathematics **1, 22** or **7–8**.

63, 64 — Qualitative and quantitative analysis. Professor KELLER and Dr. WARE. 12 points.

M., W. and F. at 10, and 6 hours of laboratory work, Tu., 2–5 and Th., 1–4 or M. and W., 1–4.

Laboratory deposit, \$20.00.

Prerequisite, Course **5–6**.

65, 66 — Quantitative analysis, advanced course including microanalysis. Professor KELLER and Dr. WARE. 8 points.

Th. at 1, and 6 hours of laboratory work, Tu. and Th., 9–12.

Laboratory deposit, \$25.00.

Prerequisite, Course **63, 64**.

This course is designed to meet the needs of individual students and will be given for a class of five or more.

41-42 — Organic chemistry. Professors REIMER and RICE. 12 points. M., W. and F. at 9, and a minimum of 6 hours of laboratory work, M. and W., 1-4 or Tu. and Th., 9-12.

Laboratory deposit, \$25.00.

Prerequisite, Courses 5-6 and, except for reasons of weight, 63, 64.

42a — Elementary organic chemistry. Professor RICE. 6 points.

M., W. and F. at 10, and a minimum of 6 hours of laboratory work, M. and W., 1-4 or Tu. and Th., 9-12.

Laboratory deposit, \$15.00.

Prerequisite, Course 5-6.

Short course intended primarily for pre-medical students.

105 — Inorganic chemistry, advanced course. Professor KELLER. 6 points.

M., W. and F. at 1, and a minimum of 6 hours of laboratory work, Tu. and Th., 9-12.

Laboratory deposit, \$15.00.

Prerequisite, Courses 63, 64; 41-42; Physics 11-12.

106 — Physical chemistry. Professor KELLER. 6 points.

M., W. and F. at 1, and a minimum of 6 hours of laboratory work, Tu. and Th., 9-12.

Laboratory deposit, \$15.00.

Prerequisite, Courses 63, 64; 41-42; 65 or 105; Physics 11-12, and a course in calculus.

145-146 — Organic chemistry, advanced course. Professors REIMER and RICE. 12 points.

M., W. and F. at 10, and a minimum of 6 hours of laboratory work, Tu. and Th., 2-5.

Laboratory deposit, \$30.00.

Prerequisite, Courses 5-6; 63, 64; 41-42.

157-158 — Problems in chemistry. Professors REIMER, KELLER and RICE.

Laboratory work and conferences. Credit will be given according to amount of work accomplished.

Open only to advanced students.

Laboratory deposit, \$30.00.

Journal Club. 1 hour. The instructors and the advanced students meet for reports and discussion on recent scientific papers.

CLASSICAL CIVILIZATION See Greek and Latin.

ECONOMICS AND SOCIAL SCIENCE

Course 18 counts in Group II unless taken as part of a major in economics or sociology in which case it may count toward that major and the 14-point requirement in Group II must be satisfied in other subjects.

A major in Economics or Sociology. — Students may major in economics, or in sociology, or in both, but only one introductory course may count toward a major. If a student majors in both

economics and sociology, the points for the major must be evenly divided between these subjects. Sociology 15, 16 may be counted toward an economics major. For students majoring in sociology one or more courses in allied subjects may, with the permission of the department, be counted as making up points toward the major. All students majoring in economics or sociology will be required to have a reading knowledge of French or German and to take

Economics 1-2 and 17 — Beyond these the work will vary with the interest of the students.

Those interested in economics will take Courses 13, 14 and other work to be arranged in consultation with the department. Those interested in sociology will take Sociology 1-2 and 53, 54 and other courses to be arranged in consultation with the department.

Other social sciences — In view of the essential unity of the social sciences every student majoring in economics or in sociology or in both is required to take courses from the following list amounting to 12 points distributed between two departments:

Anthropology 1, 2 or 3, 4; 109, 110;

Geography 1, 2;

Government 1, 2; 3, 4; 7, 8; 24;

History 1-2; 9, 10; 19, 20; 51, 52; 153, 154;

Psychology 1;

Religion 3, 4.

Honors Course (see page 37). — The comprehensive examination assumes: (a) knowledge of (1) principles of economics, current economic problems, history of economic theory and development, statistics, or (2) principles of sociology, current sociological problems, social work, psychological and anthropological sociology; (b) a more thorough acquaintance with a smaller group of allied subjects from the preceding list; and (c) special proficiency in some one chosen interest from this field. French and German are desirable as tools. Important allied subjects are government, psychology, history and anthropology. A detailed statement of honors requirements is available on application to the department.

ECONOMICS

1-2 (or 2r-1r) — Outlines of economics. Professors HUTCHINSON and BAKER, and Dr. BURNS. 6 points.

Beginning in September: M., W. and F. at 9 (I), at 10, (II), 2 (III), also at 2 (IV) for freshmen only. This course is divisible for freshmen only.

Beginning in February: 2r (the equivalent of 1) — M., W. and F. at 11.

Continuing in September: 1r (the equivalent of 2) — M., W. and F. at 11.

Course 1 or 2r is prerequisite to **Course 2 or 1r**. Both courses are required of majors and are prerequisite to other courses as indicated.

Course 1 (or 2r): A concrete description of economic life and a study of particular forms of business organization such as factories, railroads, farms, banks, stock and produce exchanges. The class work is supplemented by visits to some of the organizations studied.

Course 2 (or 1r): The more general principles underlying production and distribution of wealth; the influences that determine prices; theories of wages, interest and profits, competition and monopoly, the relation of modern business to wealth and welfare; the rôle of the state in economic life.

13 — Economic history of England. Professor HUTCHINSON. 2 or 3 points.

Tu. and Th. at 11.

Open to all excepting freshmen.

A survey of the economic development of England since 1800. Special attention is given to the social and economic problems of machine production; the trade policy of England; the labor movement; imperialism.

14 — Economic history of the United States. Professor HUTCHINSON. 2 or 3 points.

Tu. and Th. at 11.

Open to all excepting freshmen.

A study of leading economic questions since 1800 in agriculture, industry, trade, transportation and banking.

17 — Introduction to statistics. Dr. ELIOT. 3 points.

Tu. and Th. at 10 and a laboratory hour to be arranged.

Open to all excepting freshmen.

The gathering of statistical data; questionnaires; tabulation; graphs and charts; simpler methods of summarization and comparison. Statistical fallacies. Illustrative examples from various sciences.

18 — Statistical methods. Dr. ELIOT. 3 points in Group II.

Tu. and Th. at 10 and a laboratory hour to be arranged.

Open to all excepting freshmen.

Prerequisite, Mathematics 7 and Economics 17 or the equivalent.

Students are given the opportunity to acquaint themselves with the more common and basic techniques, such as index numbers, correlation and analysis of time-series, and with some statistical applications of the normal probability curve.

19, 20 — Labor in industry and society. Professor BAKER. 6 points.

M., W. and F. at 10.

Prerequisite, Course 1-2 or 2r-1r. Prerequisite for Course 20, Course 19 or the special permission of the instructor.

Winter session: The causes of industrial unrest and the attempts to relieve these causes through legislation and other public action: conciliation, mediation and arbitration; pensions, profit sharing, employee representation, etc. Scientific management.

Spring session: Organized labor in industry and society, its nature, development and policies in the United States. The response of employers to the demands of unions; legal status of trade unions, the labor injunction, labor in politics, the new unionism and its program. Organized labor in European countries and in Russia. The International Labour Office.

21 — Financial organization and investment. Professor BAKER. 3 points.

M., W. and F. at 2.

Prerequisite, Course 1-2 or 2r-1r.

The business corporation; promotion, financial management, types of securities, basis of their issue and principles of their valuation, the stock exchange; insolvency, reorganization, combination and consolidation. The principles of sound investment. Sources of information and problems of analysis. The investment trust. The foreign investment market.

22 — Business administration. Professor BAKER. 3 points.

M., W. and F. at 2.

Prerequisite, Course 1-2 or 2r-1r.

The industrial operations of the corporation. Location and management of the plant; problems concerning working capital, the purchase and storing of materials, the sales department, price, competition, co-operation, combination, employment management and personnel administration, production processes, cost accounting. The federal department of standards and the division of simplified practice.

23 — Money and banking. Dr. BURNS. 3 points.

M., W. and F. at 11.

Prerequisite, Course 1-2 or 2r-1r.

The functions performed by money and banks. The effects of changes in the purchasing power of money. The influences affecting the purchasing power of money in domestic trade and in foreign exchange. The currency and banking systems of the United States and England. Proposals for monetary control.

***124 — The price system and the economic organization of society.** Dr. BURNS. 3 points.

Tu. and Th. at 2 and a third hour to be arranged.

Prerequisite, Course 1-2 or 2r-1r. Open to juniors and seniors.

The principal theories of prices. The part played by the price system in the organization of production. Natural conditions affecting the prices of goods and services. Legal influences and commercial and industrial practices affecting prices. The distribution of incomes resulting from the present price system. The effectiveness of the present system as a means of organizing production and of distributing wealth.

25 — The consumer in modern society. Professor HUTCHINSON. 2 or 3 points.

Tu. and Th. at 9.

Open to all excepting freshmen.

A general survey of consumption based upon a study of standards of living in the United States and in Europe. This will include an analysis of consumer's budgets, laws of consumption, changes and trends in consumer demands; the relation of the consumer to the price system; the determining factors in consumer demands; installment buying; advertising; fashion; public and private effort to educate or protect the consumer.

28 — Distribution of wealth and income. Professor HUTCHINSON. 2 or 3 points.

Tu. and Th. at 9.

Prerequisite, Course 1-2 or 2r-1r.

The extent, trend, and causes of riches and poverty. A study of wealth and income with respect to the returns to the factor of production and to differences in individual incomes; and a discussion on the basis of factual analysis of conservative and radical theories of distribution. Special emphasis is laid upon distribution in the United States with comparative reference to England and the leading European countries.

Students who take the course for three points will be expected to do more intensive reading in theories of distribution.

51 — Seminar on business administration. Professor BAKER. 2 points.

Hours to be arranged.

Open to honor students.

52 — Seminar on financial organization and investment. Professor BAKER. 2 points.

Hours to be arranged.

Open to honor students.

[**53, 54 — Seminar on labor in industry and society.** Professor BAKER. 2 points.]

Open to honor students and to majors with the permission of the instructor.

Not given in 1930-31.]

More advanced courses given at Columbia University are described in the Announcement of the Division of History, Economics, Public Law and Social Science.

SOCIOLOGY

1-2 — Introduction to sociology. Professor MACIVER. 6 points.

M., W. and F. at 11.

Open to sophomores, juniors and seniors.

The elements of the social structure, customs, institutions, and associations; group interests and group formations; the family; the fabric of modern large-scale organization; the adjustment of society to environment; the more recent evolution of the social structure.

[**15 — Problems of population.** Professor CHADDOCK. 2 or 3 points.]

Open to sophomores, juniors and seniors.

Not given in 1930-31.]

16 — Social statistics: vital and economic. Professor CHADDOCK. 2 or 3 points.

Tu. and Th. at 9.

Open to sophomores, juniors and seniors.

Collection, analysis, presentation and interpretation of data on births, deaths, sickness, marriage and divorce; vital statistics and the public health; factors in mortality and length of life; significance of control over mortality and sickness; relation to quality of population. Methods of measuring real earnings and of describing standards of living.

21, 22 — An introduction to the field of social work. Miss TOUSLEY. 4 points. Th., 1-3.

Open to juniors and seniors. Course 22 is open only to students who have had Course 21.

A description of types of social work found in present-day practice, and an interpretation of main underlying principles; social work organizations and the various methods employed in meeting social problems.

53, 54 — Principles and theories of social evolution. Dr. ABEL. 4 points. Tu. and Th. at 3.

Open to juniors and seniors.

The idea of evolution as applied to society. Social change versus social development. The search for social laws. Some fundamental principles of social evolution. The theory of economic determination. The theory of the cyclical movement of society. Biological and psychological interpretations. Students will be required to write a paper each session.

56 — Seminar on the economic and social position of women. Professor HUTCHINSON. 2 points.

Hours to be arranged.

Open to honor students and to majors with the permission of the instructor.

See also Public Law 171, 172, page 84.

More advanced courses given at Columbia University are described in the Announcement of the Division of History, Economics, Public Law and Social Science.

EDUCATION

Beginning with the Class of 1932, courses in education will not satisfy the 14-point requirement in any group.

†07A — Educational psychology. Professors H. L. HOLLINGWORTH and G. S. GATES and Miss PALLISTER. 3 points either session.

Winter session only: I — M., W. and F. at 1.

Spring session only: II — M., W. and F. at 2.

Prerequisite, Psychology 1 or equivalent. Open to all excepting freshmen.

An introductory survey of the applications of psychology to teaching, school management, and modern educational practice and theory. This course is prerequisite to all other courses in education, except Course B01A, B02A, to which it may be taken parallel.

†B01A, B02A — History and principles of education. Professor GOODSELL and Mr. L. F. SMITH. 6 points.

M., W. and F. at 10 (I), at 1 (II).

Prerequisite or parallel, Course 07A. Open to juniors and seniors.

Winter session: The historical development of educational systems and ideas, in their social settings, up to the close of the seventeenth century.

Spring session: The evolution and evaluation of contemporary principles of education. The student will be encouraged to formulate for herself a tentative philosophy of education.

The entire course satisfies the New York State requirements in history and principles of education for the professional provisional certificate.

†135A-136A — High-school teaching. Professor WOODRING. 6 points.

M., W. and F. at 2.

This course is not divisible under any conditions.

Prerequisite, Course 07A. Prerequisite or parallel, Course B01A, B02A.

A course in methods and observation for students in Barnard College and Columbia College who are preparing to teach in secondary schools. The work will proceed along three lines: (1) de-

velopment of the basic principles underlying all good teaching through class discussion, practical exercises and contacts with teaching; (2) organization of teaching materials in the different fields of interests; (3) directed observations and small units of participation under supervision. The entire course satisfies all the New York State requirements in methods of teaching in high school for the provisional professional certificate.

Other courses offered at Teachers College and open under certain conditions to specially qualified seniors upon consent of the Committee on Instruction of Barnard College and the instructor in Teachers College are Education 107A — Educational psychology; Education 107C — Psychology applied to teaching; Education 101A-102A — History of education; Education 103A — Principles of teaching; Education 103B — Principles of practical arts teaching; Education 133M-134M — Elementary education.

ENGLISH

A major in English. — Students majoring in English and graduating not later than February 1931 will be required to take in

English — An examination in English language, or 3 points chosen from the following courses: 39-40; 41, 42; 43, 44; 53, 54.

6 points in each of two of the following periods: Medieval literature, Elizabethan literature, seventeenth century, eighteenth century, nineteenth century, American literature.

Other fields — Related courses in other departments in conjunction with work in the periods of literature indicated above. A reading knowledge of at least two foreign languages, one of which should be modern.

Students majoring in English and graduating in June 1931 or thereafter will be required to take in

English — A or B as follows:

A. A comprehensive examination in three parts: (1) history of the English language including a reading knowledge of Anglo-Saxon or Middle English; (2) English literature before 1700; (3) English and American literature since 1700.

B. Part 2 or 3 of the comprehensive examination described above and 18 points from Group I (Composition) passed with at least grade B, 6 points to be taken prior to the junior year.

Other fields — Related courses in other departments. A reading knowledge of at least two foreign languages, one of which should be modern.

Honors Course (see page 37). — Required of all candidates in each year of candidacy: Course 91, 92. The comprehensive examination assumes: (a) general knowledge of the growth and structure of the English language and command of either Anglo-Saxon or Middle English; (b) knowledge of the more important English authors and of their relations to literary periods; (c) comprehensive and detailed knowledge of one period or movement of major importance; (d) such knowledge of English history and of continental literature as is needed in each case.

A1 (or A2r), A2 — Composition. Professors FAIRCHILD, BALDWIN and HOWARD, Mr. MARSHALL, Miss ROSENBLATT, Mr. RATHERT and Miss GRIERSON. 6 points.

Winter session only: **A1** — M., W. and F. at 10 (I), at 2 (II); Tu., Th. and S. at 11 (III).

Spring session only: **A2** — M., W. and F. at 10 (I), at 2 (II); Tu., Th. and S. at 11 (III).

Spring session only: **A2r** (the equivalent of A1) — M., W. and F. at 2.

Generally prescribed for freshmen, and prerequisite for any other course except Courses 21-22; 28; 31, 32; 39-40; 41, 42 (44).

A7, A8 — Language and composition for foreign students. Professor GREET (winter session), Mr. RATHERT (spring session). 6 points.

May be taken at any of the hours listed for Course A1, A2.

Students not thoroughly accustomed to the use of English should consult the instructor immediately upon admission to college. This course may be substituted in such cases for Course A1, A2, or by special permission may be taken as an elective.

C1 — Speech. Professor GREET and Mrs. DAVIS. — Prescribed in the winter session in conjunction with Course A1.

Four lectures: Sept. 26, Oct. 3, 10, and 17 at 4 p.m. in Brinckerhoff Theater.
C2 (or C5) — Voice training. Mrs. DAVIS and Mrs. SEALS. 1 point.

Winter session only: C5 — M. and F. at 11 (I); Tu. and Th. at 9 (II), at 10 (III).

Spring session only: C2 — M. and F. at 9 (I), at 2 (II); Tu. and Th. at 9 (III), at 10 (IV).

Prescribed for freshmen and for students transferring from other institutions who are found to need remedial instruction in voice.

GROUP 1. *Composition*

Prerequisite, Course A1.

2 — Composition. Professor BALDWIN. 3 points.

M. and W. at 2 and a conference hour.

Open to students excused from Course A2.

Consecutive writing in a chosen field, criticism and practice in others.

3, 4 — Advanced composition. Professor BREWSTER. 6 points.

Tu. and Th. at 10 and a third hour to be arranged.

Intended for students who wish unrestricted practice in writing on subjects or in fields of their own choosing. Daily themes (winter session) and weekly themes (spring session).

11, 12 — Story-writing. Professor STURTEVANT. 6 points.

Tu., 4-5:50 and a third hour to be arranged.

Intended primarily for students who wish to study and practice the short story, this course considers other forms of magazine writing incidentally.

15, 16 — Play-writing. Professor LATHAM. 4 or 8 points.

M. and W. at 3 and an hour for criticism.

The primary intention is not to train playwrights, but to give an insight into drama as a mode of expression. Critical study of plays in text and in the theatre. Dramatizations, writing of original sketches, pantomimes and plays. Stage trial of all work by members of the class.

GROUP 2. *Speech*

Open to all students.

21-22 — Elocution. Mrs. SEALS. 4 points.

M., W. and F. at 1.

Winter session: The mechanics of voice and speech; breathing exercises, vocal gymnastics and a practical study of English phonetics. Spring session: The principles of good reading aloud with special reference to phrasing, inflection and emphasis.

23-24 — Advanced elocution. Mrs. DAVIS. 4 points.

M., W. and F. at 11.

Prerequisite, Course 21-22.

Winter session: Utterance, quality of voice, force, pitch and time. Spring session: Application of above principles to the oral presentation of literature.

[**23 — Public speaking.** 2 points.

Not given in 1930-31.]

GROUP 3. *Literature*

Course A1 is prerequisite for all courses except **31, 32; 39-40; 41, 42.**

31, 32 — Introduction to the study of English literature. Professor HALLER, Miss ROSENBLATT, and Miss GRIERSON. 6 points.

Tu. and Th. at 11 and conferences.

Intended primarily for freshmen and sophomores, but open to majors of other departments who have taken no more advanced course in literature.

Not a "survey," but a demonstration of various methods of approaching, analyzing and evaluating major works of English literature.

39-40 — The English language. Professor GREET. 4 points.

Tu. and Th. at 10.

A study of modern English from the point of view of history and use.

41 — Anglo-Saxon. Professor GREET. 2 points.

Tu. and Th. at 11.

[**42** — Beowulf. Professor GREET. 2 points.

Prerequisite, Course **41**.

Not given in 1930-31.]

Courses **42** and **44** will be given in alternate years.

44 — Middle English. Professor GREET. 2 points.

Tu. and Th. at 11.

Prerequisite: Course **41** or the equivalent.

47, 48 — European legend. Professor STURTEVANT. 6 points.

Tu. and Th. at 11 and a conference hour.

Folk tale; mythology; popular ballad; medieval epics of Ireland, France, England, Germany; Icelandic sagas, Norse eddas.

Courses **47, 48** and **49, 50** will be given in alternate years.

[**49** — Medieval narrative. Professor STURTEVANT. 3 points.

Development of Arthurian tradition in romance and chronicle; *Romance of the Rose*; *Reynard the Fox*; *Gesta Romanorum*; *Golden Legend*; *Decameron*.

Not given in 1930-31.]

[**50** — Dante in English. Professor STURTEVANT. 3 points.

Not given in 1930-31.]

53 — Chaucer. Professor BALDWIN. 3 or 4 points.

M., W. and F. at 9.

The language and poetry of Chaucer, the ideas and literary habits of his time.

54 — The Later Middle Age and the Renaissance. Professor BALDWIN. 3 points.

M. and W. at 9 and a conference hour.

Prerequisite, Course **53** or **43** or the equivalent.

Piers Plowman, *Pearl*, and other fourteenth century poems; the fifteenth century; More and other humanists; assignments for individual study in literary and social history.

57, 58 — Development of English drama. Professor LATHAM. 6 points.
M., W. and F. at 1.

The historical and literary development of English drama from its origins to the eighteenth century.

59, 60 — Modern English drama. Professor LATHAM. 6 points.
M., W. and F. at 10.

English and American playwrights from the eighteenth century to the present.

61, 62 — Shakespeare. Professor FAIRCHILD. 6 points.
Tu. and Th. at 9 and a conference hour.

63, 64 — Elizabethan literature. Professor HOWARD. 4 or 6 points.
M. and W. at 11 and a conference hour.

The Renaissance in England; non-dramatic poetry from Wyatt and Surrey to Spenser and Donne; the rise of English prose.

65, 66 — English literature of the seventeenth century. Professor HALLER.
4 or 6 points.

Tu. and Th. at 2 and a conference hour.
Milton, Dryden and the literature of their times.

67, 68 — English literature of the eighteenth century. Miss WEEKS. 6 points.
M. and W. at 10 and a conference hour.
Open only to students who have completed 12 points in English literature.

69, 70 — The English novel. Professor STURTEVANT. 4 or 6 points.
Tu. and Th. at 10.

The novel as a literary type and as a social document. The contemporary English and American novel as an approach to the eighteenth and nineteenth century novel.

71, 72 — The romantic movement. Mr. MARSHALL. 4 or 6 points.
Tu. and Th. at 10 and a conference hour.
English literature from Blake to Byron.

73, 74 — English Victorian literature. Professor HOWARD. 4 or 6 points.
Tu. and Th. at 11 and a conference hour.
Carlyle, Mill, Tennyson, Newman, Arnold, Ruskin, Pater, Browning, Morris, Rossetti, Swinburne, Kipling.

77, 78 — American literature. Mr. RATHERT. 4 or 6 points.
Tu. and Th. at 9 and a conference hour.

91, 92 — Special reading. Professors BREWSTER, HALLER, FAIRCHILD and GREEF, and Mr. MARSHALL. 4 points.
M., 2-4 (I), Tu., 2-4 (II), Wed., 3-5 (III), Th., 3-5 (IV), Fri., 2-4 (V).
Required of candidates for honors in English and recommended for major students; not open to other students; may be taken two years in succession. Registration in each section is strictly limited.

Special reading planned in each case to supplement and coördinate the student's other courses in English and related subjects.

FINE ARTS

A major in Fine Arts. — Students majoring in fine arts will be required to take in Fine Arts — Courses 27, 28; 29, 30; 37, 38 and other courses to be arranged in consultation with the department.

Other fields — Courses in history, literature, languages, philosophy or other fields which will vary with the special interest of the student and must be arranged in consultation with the major department.

1-2 — Introduction to the study of fine arts. Professor HARING. 4 points.
M. and W. at 11.

Open only to freshmen and sophomores.

A general study of esthetic problems as preparation for a more detailed study of the fine arts. This will include a discussion of the major problems of artistic expression and their solution in the fields of architecture, sculpture and painting followed by a consideration of the relation of art forms to certain great periods of European culture.

27 — Ancient art. Miss LAWRENCE. 3 points.

Tu. and Th. at 2 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to all excepting freshmen.

An introductory study of the art of Egypt, Mesopotamia, Persia, Greece and Rome.

28 — Medieval art. Professor SWIFT. 3 points.

Tu. and Th. at 2 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to all excepting freshmen.

An introductory study of the development of art in Europe in the Early Christian, Byzantine, Carolingian, Romanesque and Gothic periods.

29 — Italian Renaissance painting. Professor J. D. YOUNG. 3 points.

M. and W. at 2 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to juniors and seniors.

The development of Italian painting of the Renaissance, with consideration of related tendencies in the period.

30 — Northern painting. Professor J. D. YOUNG. 3 points.

M. and W. at 2 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to juniors and seniors.

The history and development of painting in the Flemish, German and Dutch schools from the end of the Gothic period through the seventeenth century.

37 — Introduction to modern painting. Professor J. D. YOUNG. 3 points.

Tu. and Th. at 11 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to juniors and seniors.

The development of modern painting from the seventeenth century to the present day, with consideration of the cognate tendencies of the times.

38 — Italian Renaissance sculpture. Miss LAWRENCE. 3 points.

Tu. and Th. at 11 and a third hour to be arranged for conference or for visits to the Metropolitan Museum of Art.

Open to juniors and seniors.

The historical development of Italian sculpture from the end of the Romanesque period through the sixteenth century. Special attention will be given to the genius of the Renaissance as expressed in the works of Donatello and Michelangelo.

60 — Prints and drawings. Miss BYRAM. 3 points.

Hours to be arranged.

Open to major students on special permission of the department.

The history and technic of engraving, etching and drawing as illustrated in the work of the principal artists from the beginning of the 15th century to modern times.

[*100 — Renaissance and modern sculpture outside of Italy.] Professor HARING. 3 points.

Open to qualified seniors who have had a course in Italian sculpture or its equivalent.

The development of Renaissance styles in northern Europe and of post-Renaissance styles in all of western Europe and America until the present day.

Not given in 1930-31.]

***101 — Evolution of ancient architecture.** Professor SWIFT. 3 points.

M. and F. at 2 and a third hour to be arranged for conference.

Prerequisite, Course 27 or its equivalent. Open to qualified seniors.

The evolution of the architecture of the countries in or near the Mediterranean basin from ancient Egypt through the Roman Empire. In addition to the analysis of the structural development a careful examination will be made of the relation of each architecture to its civilization and to the other arts produced in the same environment.

***102 — Evolution of the architecture of the Middle Ages.** Professor SWIFT. 3 points.

M. and F. at 2 and a third hour to be arranged for conference.

Prerequisite, Course 28 or its equivalent. Open to qualified seniors.

The evolution of the Early Christian, Byzantine, Carolingian, Romanesque and Gothic styles. In addition to the analysis of the structural development a careful examination will be made of the relation of each architecture to its civilization and to the other arts produced in the same environment.

Courses 101, 102 and 103, 104 are given in alternate years.

[*103 — Architecture of the Renaissance.] Professor SWIFT. 3 points.

Open to qualified seniors.

A study of the origin and development of Renaissance architecture in Italy and its subsequent history in other parts of Europe.

Not given in 1930-31.]

[*104 — Modern architecture.] Professor SWIFT. 3 points.

Open to qualified seniors.

Types and theories in the structural art of modern times in Europe and America with special emphasis on the evolution of American architecture from the colonial period to the present.

Not given in 1930-31.]

*149 — Introduction to Greek art. Professor C. H. YOUNG. 3 points.

M., W. and F. at 3 with occasional visits to the Metropolitan Museum of Art at hours to be arranged at the opening of the course.

Open to qualified seniors who have had Course 27 or its equivalent.

A brief survey of the pre-Hellenic antiquities followed by a study of historic Greek art in its various fields.

*150 — Introduction to Roman art. Professor MURRAY. 3 points.

Tu. and Th., 2-3:25.

Open to qualified seniors who have had Course 149 or its equivalent.

A systematic study of the last phase of classic art as presented by Roman sculpture and painting, and of the elements of Roman architecture, with preliminary consideration of the Hellenistic and Etruscan influences.

*183 — Spanish art. Professor HARING. 3 points.

Tu. and Th., 4-5:25.

Open to qualified seniors.

A survey of the important periods in the history of the art of Spain; the prehistoric cave painting; classical, Visigothic and Moorish remains; Romanesque and Gothic sculpture and art; the panel painters of the fifteenth and sixteenth centuries; Plateresque architecture and the great series of painters from El Greco and Velasquez to modern times.

FRENCH. See Romance Languages and Literatures.

GEOGRAPHY, GEOLOGY, AND MINERALOGY¹

GEOGRAPHY

1, 2 — Physical and economic geography. Dr. KAY. 4 or 6 points.

M. and W. at 9 (4 points); additional hour, F. at 9 (6 points).

GEOLOGY

A major in Geology. — Students majoring in geology will be required to take in

Geology — Courses 1-2 (or 2r-1r), 13, and Mineralogy 1, 2, and other courses to be arranged in consultation with the department.

1-2 (or 2r-1r) — General geology. Elementary course. Professor OGILVIE and assistant. 8 points.

Beginning in September: 1-2 — Tu. and Th. at 11, and 4 hours of laboratory work, M. and W., 1-3, or 3-5, or Tu. and Th., 9-11, or 2-4. Occasional Saturday field trips in the spring.

Beginning in February: 2r (the equivalent of 1) — Tu. and Th. at 10, and 4 hours of laboratory work, Tu. and Th., 2-4.

Continuing in September: 1r (the equivalent of 2) — Tu. and Th. at 10, and 4 hours of laboratory work, Tu. and Th., 2-4.

Course 2r, the equivalent of 1, is offered in the spring session for students who want to begin a science in February; and Course 1r, the equivalent of 2, is offered in the winter session of the following year.

¹ In the reckoning of points for major and minor subjects, geography, geology and mineralogy may be counted as one subject.

5-6 — Applied geology. Professor OGILVIE. 4 points.

Tu. and Th. at 2.

Prerequisite, Course 1-2 or Mineralogy 1 or the permission of the instructor.

A study of the minerals of economic importance and of the application of geology to present day industrial and commercial development.

[**13 — Summer field course.** Dr. HOLZWASSER. 2 weeks in the field before opening of summer session and the subsequent preparation of a report. 3 or 4 points.

Prerequisite, Course 1-2.

This course is not given every year. Registration must be made by April 15. The tuition fee of \$40 is payable by June 1.

Not given in the summer of 1930.]

[**15-16 — Paleontology.** Dr. HOLZWASSER. 6 points.

Prerequisite, Course 1-2.

Not given in 1930-31.]

[**17-18 — Glacial geology.** Professor OGILVIE. 4 points.

Prerequisite or parallel, Course 1-2.

Not given in 1930-31.]

19 — General geology. Second course. Professor OGILVIE. 3 points.

W. at 10 and Th. at 1, and 2 hours of laboratory work, W., 2-4.

Prerequisite, Course 1-2.

Structural and dynamic geology.

20 — Advanced historical geology. Dr. KAY. 3 points.

W. at 10 and Th. at 1, and 2 hours of laboratory work, W., 2-4.

Prerequisite, Course 1-2.

[**27, 28 — Physiographic geology.** Dr. HOLZWASSER. 6 points.

Prerequisite, Course 1-2 or its equivalent.

Not given in 1930-31.]

124 — Advanced glacial geology. Professor OGILVIE. Lectures, reading, field and laboratory work. 3 points.

Tu. and Th. at 4.

Prerequisite, Course 1-2.

Journal Club. The instructors in Columbia University and advanced students meet one evening fortnightly for the discussion of current papers and problems. The meetings of the Journal Club are open to Barnard students taking courses in geology.

MINERALOGY

1 — General mineralogy. Dr. KAY. 3 points.

W. at 11, and 4 hours of laboratory work to be arranged.

Prerequisite, a knowledge of elementary chemistry.

If there are less than six applications, arrangements may be made for parallel work in Columbia University.

2 — Blowpipe analysis. Dr. KAY. 3 points.

W. at 11, and 4 hours of laboratory work to be arranged.

Prerequisite, Course 1.

12 — Optical mineralogy. Professor OGILVIE. 2 points.

Hours to be arranged for 1 lecture and 2 hours of laboratory work.

Prerequisite, Course 1.

Other courses given at Columbia University are described in the Announcement of the Division of Geology, Geography and Mineralogy.

GERMANIC LANGUAGES AND LITERATURES

A major in German. — Students majoring in German will be required to take in German — Courses 9, 10 and 45, 46, and other courses to be arranged in consultation with the department.

Other fields — Courses will vary with the special interest of the student and must be arranged in consultation with the major department.

Honors Course (see page 37). — The comprehensive examination assumes (a) the ability to speak and write German easily; (b) a general acquaintance with German literature from its beginnings to the end of the nineteenth century; (c) a more thorough knowledge of some particular period; (d) some familiarity with the development of political, economic and social institutions in Germany and with German art. A general knowledge of European history is desirable.

(See also *Introduction to the science of language*, p. 109.)

1-2 — Beginners' course. Miss GODE, Miss POPE and Dr. WILD. 6 points.

M., W. and F. at 9 (I), at 11 (II), at 1 (III), at 2 (IV); Tu., Th. and S. at 9 (V).

Elements of grammar, easy reading, written and oral practice.

3, 4 — Intermediate course. Miss GODE, Miss POPE and Dr. WILD. 6 points.

M., W. and F. at 10 (I), at 1 (II); Tu., Th. and S. at 10 (III).

Prerequisite to Course 3, Course 1-2 or elementary entrance German.

Prerequisite to Course 4, Course 3 or intermediate entrance German.

Rapid reading of texts, with practice in writing and speaking German.

5, 6 — Lessing, Goethe and Schiller. Professors BRAUN and PUCKETT. 6 points.

M., W. and F. at 11.

Prerequisite to Course 5, Course 3, 4 or a good grade in intermediate entrance German. Prerequisite to Course 6, Course 5 or special permission of the instructor.

The course emphasizes literary appreciation rather than practice in the language. A desirable prerequisite to more advanced courses in German literature.

7, 8 — Modern German prose. Professor PUCKETT and Dr. WILD. 6 points.

M., W. and F. at 10.

Prerequisite, Course 3, 4 or the permission of the instructor.

Rapid reading of modern German historical, critical, and scientific prose. Assignments in German newspapers and journals. Structure and development of vocabulary.

9, 10 — Practice course. Miss GODE. 4 points.

Tu. and Th. at 10.

Prerequisite, Course 3 or a good grade in intermediate entrance German.

Conversation and written exercises.

15-16 — German conversation. Professor BRAUN and Miss GODE. 1 point if taken for both winter and spring sessions; no credit if taken for either session separately, or if the student is taking no other German course.

Th. at 1.

Prerequisite, a fair degree of proficiency in German.

Consultation with the instructor is desired before registration.

22 — Moderne Deutsche Lyrik. Dr. WILD. 2 points.

M. and W. at 2.

Prerequisite, Course 5, 6 or 7, 8 or the equivalent.

[**25, 26 — The drama of the nineteenth century.** Professor BRAUN. 4 or 6 points.

Prerequisite, Course 5, 6 or 7, 8 or the equivalent.

After a brief survey of the earlier nineteenth century drama, the development of the modern realistic movement will be studied, with special emphasis on the works of Gerhart Hauptmann.

Not given in 1930-31.]

[**27 — Prose fiction of the nineteenth century.** Professor PUCKETT. 2 or 3 points.

Prerequisite, Course 5, 6 or 7, 8 or the permission of the instructor.

Not given in 1930-31.]

28 — The literature of the twentieth century. Professor PUCKETT. 2 or 3 points.

M. and W. at 1.

Prerequisite, Course 5, 6 or 7, 8 or the permission of the instructor.

[31 — Gottfried Keller. Professor PUCKETT. 2 or 3 points.

Prerequisite, Course 5, 6 or 7, 8 or the permission of the instructor.

Not given in 1930-31.]

35 — Goethe's Faust. Professor BRAUN. 3 points.

M., W. and F. at 9.

Open to juniors and seniors who have had Course 5, 6 or 7, 8, or the equivalent.

45, 46 — History of German literature from the earliest times to the nineteenth century. Professors BRAUN and PUCKETT. 4 or 6 points.

Tu. and Th. at 11.

Prerequisite, Course 5, 6 or 7, 8, or the equivalent.

Other courses given at Columbia University are described in the Announcement of the Division of Modern Languages and Literatures.

GOVERNMENT

A major in Government. — Students with a major in government should elect in Government — Courses 1, 2; 3, 4; 7, 8 and beyond these a number of more advanced courses determined in each case in accordance with the field of interest of the student.

In advanced work in the department a division of interest is recognized between

A — American government, politics and constitutional law, and

B — International relations and comparative government.

Because of the close relationship between the subject matter of history and that of government students majoring in government may offer as part of the required 28 points, 6 points in history including a choice of History 9, 10; 1-2; or 11, 12. In like manner majors in history may offer courses in government. (See p. 88.)

Other social sciences. — In view of the essential unity of all the social sciences every major in government must, in addition to the major requirement described above, also elect a minimum of 6 points in each of two social science departments. Such elections shall be made from the following courses: —

Anthropology 1, 2; 3, 4; 109;
 Economics 1-2; 13, 14; 17, 18;
 History 9, 10; 11, 12; 19, 20; 51, 52;
 Philosophy 61-62;
 Psychology 1, 22, 38;
 Sociology 1-2; 15, 16.

Honors Course (see page 37). — Candidates for honors in government will be examined both orally and by written paper on one of the two lines of interest described above.

I. Introductory courses

1, 2 — The governments of the modern world. Mr. PEARDON. 4 or 6 points.
 Tu. and Th. at 2.

Open to all students including freshmen.

A survey of the government and political problems of modern states: England and the self-governing British Dominions (winter session); France, Germany, and the other important continental countries, (spring session). Some consideration is given to the ideas and influence of important political leaders in each of the countries discussed.

3, 4 (old number 1, 2) — An introduction to American public affairs. Miss CLARK. 6 points.

M., W. and F. at 1.

Open to all students including freshmen.

A survey of contemporary American public problems including the governmental regulation and protection of business and labor, the conservation of natural resources, the protection of religious liberty and of free speech, the relation of the states to the nation, the promotion of public welfare, health and education, the enforcement of law and order, the administration of justice; the party system; the leadership of the executive; the process of administration; law and legislation; and the political problems of the larger American cities.

7, 8 — Great American political personalities. Professor WALLACE (winter session) and Professor MOLEY (spring session). 4 or 6 points.

Tu. and Th. at 9.

Open to all excepting freshmen. Especially intended for students not majoring in government who desire a broad survey of the subject matter of American politics.

American politics considered in the light of the ideas, achievements and influence of important leaders including Jefferson, Hamilton, Marshall, Jackson, Lincoln, Bryan, Hanna, Roosevelt, La Follette, Wilson and others. The required reading in the course is largely drawn from the best recent biographies of these leaders supplemented by some descriptive and analytical political works.

II. Intermediate courses

[**11** — International relations and world politics. Mr. PEARDON. 3 points.

Prerequisite, 6 points in history or government.

Some of the chief points of international friction: nationalism, the antagonism of the races, white supremacy, militarism, imperialism, economic rivalry, secret diplomacy, with particular reference to the "danger spots" of the world. Various forms of international coöperation, such as the League and its forerunners, the World Court, the Pan-American Union and the Dawes Plan.

Not given in 1930-31.]

21 — Dictatorship and democracy in continental Europe. Miss CLARK. 3 points.

M., W. and F. at 2.

Prerequisite, 6 points in history or government.

Russia, Italy, and Germany as they illustrate the relation of dictatorship to democracy since the World War, with special emphasis on the influence of political leaders.

24 — Government and social problems. Miss CLARK. 3 points.

M., W. and F. at 2.

Prerequisite, 6 points in government or economics.

A consideration of those agencies of government which are designed to deal with social problems, with particular reference to the development of social legislation in the fields of social insurance, immigration, labor, and public welfare.

III. Advanced and graduate courses

41, 42 — The practice of politics. Miss CLARK. 3 points.

Hours to be arranged.

Prerequisite, Course 3, 4 and special permission of the department. Either half of this course may be taken separately.

First-hand observation and study of the actual management of political campaigns and of the operation of legislative bodies and civic organizations as well as problems involving material dealing with practical politics and elections.

62 — Honors course. Professor MOLEY. 2 points.

Hours to be arranged.

Open only to government majors and to approved honor students in history, sociology or economics.

Readings and discussion of selected subjects in the fields of politics, public administration, and jurisprudence.

Note: The following graduate courses in the Department of Public Law may be taken by properly qualified juniors and seniors. Students who desire to elect any of them must secure the approval of the Department of Government at Barnard. Ordinarily a minimum of 6 points of government in addition to a major interest in the social sciences is required as a prerequisite.

***105-106 — American municipal administration.** Dr. GULICK. 6 points.

Th., 2-4.

***145 — The governments of France and Belgium.** Professor ROGERS. 3 points.
W., 2-4.

***146 — The governments of Germany and Austria.** Professor ROGERS. 3 points.
W., 2-4.

Public Law

***103, 104 — Constitutional law of the United States.** Professor MCBAIN.
6 points.

Tu. and Th. at 10.

A consideration of the American federal system and of the constitutional limitations for the protection of life, liberty and property. Interstate commerce, the powers of Congress, the police power, taxation, obligation of contracts and protection to persons accused of crime.

***156 — National administration.** Professor MACMAHON. 3 points.

Tu., 2-4.

A study primarily of problems of control in its various aspects, including the law and practice of appointments and removals; of commissions, government-owned corporations and other semi-autonomous bodies; of the exercise of delegated powers to make rules and regulations and of the admission of vocational representation in this connection; of the possibility of state participation in the administration of national laws; and of fiscal supervision.

*162 — The administration of justice. Professor MOLEY. 3 points.
Tu. and Th. at 11.

A study of contemporary problems in jurisprudence: the province of law and legislation in the social order and in the political state; theories of the nature of the judicial process; the inter-relations of the judicial with the executive and legislative branches of government; the criminal law as an expression of social attitudes and as an instrument for control; methods and objectives in current research in law and its administration.

*171-172 — Modern ideas of the state. Professor MACIVER. 6 points.
W., 4-6.

This course may count toward a major in sociology.

A review of the course of political thought from Machiavelli to the present, with more emphasis on the period since Rousseau; modern theories of sovereignty, of the functions, powers, and limits of the state. Present-day assaults on the principle of representative government, and of democracy in general.

Other courses offered at Columbia University are open to Barnard students under the conditions mentioned in the foregoing Note.

GREEK AND LATIN

A major in Greek, or in Latin, or in Greek and Latin combined. — Students may major in Greek, or in Latin, or in Greek and Latin combined. Students majoring under this department will be required to take courses to be elected in appropriate sequence under the direction of the department. Toward a

Major in Greek — Any course in Greek and 4 points in Classical Civilization may count.
Major in Latin — Any course in Latin and 4 points in Classical Civilization may count.

Major in Greek and Latin combined — The following combinations are possible: (a) 18 points of Greek, 10 points of Latin, (b) 18 points of Latin, 10 points of Greek. No points in Classical Civilization may count.

At least one course in Greek composition or one course in Latin composition is strongly recommended. Students will find it profitable to take courses in Greek history, or in Roman history, or in both (History 15, 16; 17, 18), and courses in Classical Civilization.

Other fields — The work will vary with the special interest of the student and should be arranged in consultation with the Department of Greek and Latin.

Honors Course (see page 37). — The comprehensive examination assumes a general knowledge of the languages, the literature, and the civilization of (ai) ancient Greece and (a_{ii}) ancient Rome; (b) a more thorough knowledge of either (ai) or (a_{ii}); (c) a special knowledge of some particular problem, author or work within (b); (d) a reading knowledge of French and German; (e) necessary acquaintance with subjects cognate to those involved in (c).

(See also *Introduction to the science of language*, p. 109.)

CLASSICAL CIVILIZATION

Excepting for students majoring in Greek or in Latin, courses in classical civilization will count toward the 14-point requirement in the group indicated for each course by the statement made in connection with the point value.

[51 — Greek life and thought. Professor VAN HOOK. 3 points in Group III.
Open to all excepting freshmen.

A portrayal of Greek civilization.

Not given in 1930-31.]

52 — Greek art. Professor C. H. YOUNG. 3 points in Group I.

M., W. and F. at 1 and, at hours to be arranged, at the Metropolitan Museum of Art.

Open to all excepting freshmen.

[**53, 54** — Roman life and thought. Professor KNAPP. 4 points in Group III.
Open to all excepting freshmen.
Not given in 1930–31.]

55 — Greek literature in translation. Dr. REILEY. 2 points in Group I.
Tu. and Th. at 11.
Open to all excepting freshmen.
Greek poetry, with special reference to Homer and the dramatists.

[**56** — Greek literature in translation. 2 points in Group I.
Not given in 1930–1931.]

[**57, 58** — Latin literature in translation. Professor KNAPP. 4 points in Group I.
Open to all excepting freshmen.
Winter session: Plautus, Terence, Ennius, Lucretius. Spring session: Catullus, Vergil, Horace, Ovid.
Not given in 1930–31.]

GREEK

1–2 — First course. Professor HIRST. 3 recitations, 2 hours unprepared work in class-room. 8 points.

M., Tu., W., Th. and F. at 2.
Prerequisite, elementary Latin.

Grammar, composition, selected readings in prose and verse; selections from Homer's *Iliad*. This course may not be begun in the spring session.

11 — Homer: *Odyssey*; Lucian: *selections*. Professor GOODALE. 3 points.
M., W. and F. at 10.
Prerequisite, Course 1–2 or elementary entrance Greek.

12 — Plato: *selections*; Euripides (one play). Professor HIRST. 3 points.
M., W. and F. at 10.
Prerequisite, Course 1–2 or elementary entrance Greek.

19–20 — Prose composition. First course. Professor HIRST. 2 points.
Hour to be arranged.
May be taken in connection with any reading course in Greek (except 1–2), but not separately, except by special permission; particularly recommended to students who have taken only Course 1–2.

21 — Greek tragedy. Professor KNAPP. 3 points.
M., W. and F. at 11.
Prerequisite, Course 11 or 12 or 25 or 26.

22 — Greek comedy. Professor KNAPP. 3 points.
M., W. and F. at 11.
Prerequisite, Course 11 or 12 or 25 or 26.
Several plays of Aristophanes, including the *Clouds* and the *Frogs*.

25 — Selections from Herodotus: *book III.* Professor HIRST. 2 points.
Tu. and Th. at 11.

Prerequisite, Course **1-2** or elementary entrance Greek.

Aspects of the Greek world in the sixth century B.C., including the story of the Ring of Polycrates.

[**26** — Selections from the lyric poets. Professor VAN HOOK. 2 points.
Prerequisite, Course **11** or **12** or **25**.
Not given in 1930-31.]

29-30 — Prose composition. Second course. Mr. WESTBROOK. 2 points.
Hours to be arranged.

Prerequisite, Course **19-20**, or the equivalent.

May be taken in connection with any reading course in Greek, but not separately, except by special permission. This course may be taken for credit in two different years.

***101, 102** — Greek literature. *Part I, poetry.* Professor PERRY. 6 points.
Tu. and Th. at 4.
Prerequisite, Course **21** or **22** or **26**.
General survey, with extensive reading, in Greek, of Greek poetry.

***139-140.** Prose composition. Advanced course. Professor PERRY. 4 points.
Hour to be arranged.
Prerequisite, Course **29-30**. Open to specially qualified seniors.

See also above, under Classical Civilization, p. 84.

LATIN

[**1-2** — First course. Professor GOODALE. 3 recitations, 2 hours unprepared work in class-room. 8 points.

Open to all students who have not offered Latin at entrance.

Grammar, composition, selected readings in prose and verse, including a Roman comedy.
This course may not be begun in the spring session.

Not given in 1930-31.]

3 — Selections from Vergil: *Aeneid I-VI.* Professor GOODALE. 3 points.
M., W. and F. at 9.
Prerequisite, Course **1-2** or **2** or **3** units in entrance Latin. Course **9-10** or **19-20** is strongly recommended as a parallel.

Parts of the *Aeneid* will be read and the poem will be studied as a whole.

[**9-10** — Oral Latin. Professor GOODALE. 1 point for the entire course; no credit for either session alone.

May be taken with any reading course in Latin, but not separately. Strongly recommended as a parallel to Courses **3** and **11**.

Not given in 1930-31.]

11 (or 12r) — Livy: *selections*; Catullus: *selections*. Professor GOODALE. 3 points.

Winter session only: **11** — M., W. and F. at 1 (I); Tu., Th. and S. at 9 (II). Section I is reserved for the more advanced students.

Spring session only: **12r** — M., W. and F. at 9.

Prerequisite, Courses **1-2**, **3** or the equivalent in entrance Latin. Course **9-10** or **19-20** is strongly recommended as a parallel.

12 — Horace: *selected Odes and Epodes*. Professor GOODALE. 3 points.

M., W. and F. at 1 (I); Tu., Th. and S. at 9 (II).

Section I is reserved for the more advanced students.

Prerequisite, Course **11** or **12r**.

12r — See above, under Course **11**.

[**17-18** — Lectures on Latin literature. Professor KNAPP. 2 points.

Open to students who are taking any reading course in Greek or Latin; particularly recommended to students in Courses **11**, **12** and **12r**.

Not given in 1930-31.]

19-20 — Latin composition. First course. Professor GOODALE. 2 points.

M. at 3.

May be taken in connection with any reading course in Latin, but not separately, except by special permission. Strongly recommended as a parallel to Courses **3** and **11**.

21 — Horace: *Satires, Epistles*. Professor KNAPP. 3 points.

M., W. and F. at 9.

Prerequisite, Course **11** or **12** or **12r**.

22 — Juvenal; Martial; Pliny. Professor HIRST. 3 points.

M., W. and F. at 9.

Prerequisite, Course **11** or **12** or **12r**.

Roman life and thought in the early Empire.

25 — Selections from Vergil: *Aeneid VII-XII*. Professor HIRST. 2 points.

Tu. and Th. at 9.

Prerequisite, Course **11** or **12** or **12r**.

26 — Lucretius: *selections*. Professor McCREA. 2 points.

Tu. and Th. at 9.

Prerequisite, Course **11** or **12** or **12r**.

Epicureanism as an imaginative and practicable philosophy of life.

[**27** — Tacitus: *Annales I-VI*. Professor HIRST. 2 points.

Prerequisite, Course **11** or **12** or **12r**.

Not given in 1930-31.]

[**28** — Seneca: *selected plays*. Professor KNAPP. 2 points.

Prerequisite, Course **11** or **12** or **12r**.

A study of several plays, and of the influence of Seneca on the later phases of the drama.

Not given in 1930-31.]

29-30 — Prose composition. Second course. Professor KNAPP. 2 points.
M. at 3.

Prerequisite, Course 19-20.

May be taken in connection with any reading course in Latin, but not separately, except by special permission. This course may be taken for credit in two different years.

[**35-36 — Latin syntax.** Professor KNAPP. 2 points.
Not given in 1930-31.]

[**37, 38 — Plautus and Terence:** *selected plays*; Cicero: *Tusculanae Disputationes I, De Senectute, De Amicitia.* Professor KNAPP. 6 points.
Prerequisite, Courses 21, 22 or 25, 26 or 27, 28.

Roman comedy and the Roman theater. A study of the best thought of the ancient world in support of the doctrine of the immortality of the soul.

Not given in 1930-31.]

Courses 37, 38 and 41, 42 will ordinarily be given in alternate years.

41, 42 — Latin literature. Professor KNAPP. 6 points.

Tu. and Th. at 3 and Th. at 1.

Prerequisite, Courses 21, 22 or 25, 26 or 27, 28.

Selections from Caesar, Cicero, Livy, Petronius and Suetonius.

***139-140 — Prose composition.** Advanced course. Professor MOORE. 4 points.
Hour to be arranged.

Prerequisite, Course 29-30. Open to specially qualified seniors.

See also under Classical Civilization, page 84.

HISTORY

A major in History. — Students majoring in history should elect in History — Course 1-2 and at least two other general courses, such as those offered in ancient, medieval, English or American history (Courses 5, 6; 7, 8; 9, 10; 11, 12). They should then concentrate their attention on some special field in which to do work of a more advanced character, such as that offered in Courses 15, 16; 17, 18; 19, 20; 51, 52; 73, 74; 105, 106; 149, 150; 197, 198.

On account of the close relationship between the subject matter of history and that of government, history majors may offer as part of the 28 points of the major requirement 6 points in government selected from Courses 1, 2; 3, 4; 7, 8.

Other social sciences. — In view of the essential unity of the social sciences majors in history must elect also 6 points in each of two social sciences other than history: such election shall be from

Anthropology 1, 2; 3, 4; 109;
Classical Civilization 51;
Economics 1-2; 13, 14;
Government 1, 2; 3, 4; 7, 8; 11; 21; 24;
Psychology 1;
Religion 3, 4;
Sociology 1-2.

History majors must acquire a reading knowledge of some foreign language.

With the work in history they may combine work in other departments to make up a group of correlated courses on some large subject, such as ancient history and philosophy or art, modern history and international relations or sociology, English history and literature or government, American history and economics, the history of thought and culture.

Honors Course (see page 37); Candidates for honors will be examined both orally and by written paper on one of the following fields of history: ancient, medieval, modern European, English, American. In addition they will be expected to know something of the chief historians and their works in the various fields of history, as well as to have an appreciation of the types and methods of historical study and writing. A detailed statement of honors requirements is available on application to the department.

I. Introductory course

1-2 — Survey of modern European history from the age of discovery to the close of the Great War. Professor HUTTMAN, Miss YOUNG, Mr. PEARDON, and Mr. SAVELLE. 6 points.

M., W. and F. at 9 (I), at 11 (II); Tu., Th. and S. at 9 (III), at 10 (IV).

Open to students of all classes.

Winter session: Foundations of modern Europe; political, economic and intellectual achievements from the fifteenth century to the eighteenth; the British, French and American Revolutions; the era of Napoleon and the Congress of Vienna. Spring session: The Industrial Revolution; rise of nationalism; social, intellectual and economic problems of the nineteenth century; imperialism and world politics; causes, character and consequences of the Great War.

II. General courses

5, 6 — The civilization of the ancient world. Mr. TRACY. 6 or 8 points.

M., W. and F. at 9.

Open to all excepting freshmen.

The Orient, Greece and Rome. Class discussion of selected topics.

7, 8 — Europe in the Middle Ages. Mr. PEARDON. 4 or 6 points.

Tu. and Th. at 11.

The history of the Middle Ages from the decline of the Roman Empire to the rise of the national monarchies in western Europe; political movements and theories; social and economic organization; religious, intellectual and artistic life.

Open to all excepting freshmen.

9, 10 — History of the American nation from colonies to world power. Professor EARLE and Miss YOUNG. 6 or 8 points.

M., W. and F. at 11.

Open to sophomores, juniors and seniors, and to specially qualified freshmen on permission of the instructor.

Foundations of American nationality in the colonial era; political and social aspects of the Revolution, the Confederation and the Constitution; rise of democracy; conflict between nationalism and sectionalism; Civil War and reconstruction; modern industrialism and capitalism; foreign relations and American participation in the Great War.

11, 12 — Political and social history of England from the Norman Conquest to the World War. Professor HUTTMAN. 4 or 6 points.

Tu. and Th. at 2.

Open to sophomores, juniors and seniors, and to specially qualified freshmen on permission of the instructor.

Life in medieval England; the making of the constitution; Tudor England; the separation from Rome; the Elizabethan Age; the expansion of England. Political and social reforms of the nineteenth century; the Irish question; the Labour Party; international relations; the World War.

III. More advanced courses

[15, 16 — History of the ancient Orient and of Greece. Mr. TRACY. 6 points.
Open to all excepting freshmen.

A short survey of the ancient Orient; Greek civilization in its three "stages": Helladic, Hellenic and Hellenistic; fifth century Athens, as the highest type of Greek culture, and the Hellenistic Age, as the period of cultural transmission; a brief treatment of the rise of Rome and her conquest of the Mediterranean world.

Not given in 1930-31.]

17, 18 — History of Rome. Mr. TRACY. 6 points.

M., W. and F. at 1.

Open to all excepting freshmen.

A brief survey of the history of early Rome and the Republic and a more detailed study of the Empire.

19, 20 — The United States since 1890. Miss YOUNG. 4 or 6 points.

M. and W. at 2 and a third hour to be arranged.

Prerequisite, Course 9, 10.

A study of some of the significant developments in the history of the United States, from 1890 to the election of 1928. The method of the course will be the consideration of specific problems in industrial, social, economic, political, and diplomatic history, with practice in the use of source materials.

51, 52 — Pre-war and post-war Europe. Professor HUTTMAN. 6 or 8 points.

M., W. and F. at 10.

Open to juniors and seniors and to sophomores on permission of the instructor.

Political and social development of France, Germany, Russia and Italy since 1890. The Near East; the new imperialism; partition of Africa; international relations; the World War; the Peace Conference; the new Europe.

[73, 74 — The British Empire. Professor HUTTMAN. 4 or 6 points.

Not given in 1930-31.]

81, 82 — Seminar in historical study. Professor EARLE. 4 points.

Hours to be arranged.

Required of honor students and open to students majoring in history upon approval of the Department.

IV. Special courses by the visiting lecturer, Madame Halidé Edib.

164 — The development of modern Turkey — political, social and economic. Madame HALIDÉ EDIB. 3 points.

Tu. and Th. at 3, and conferences for Barnard undergraduates.

Open to juniors and seniors.

V. Graduate courses

Note: The following graduate courses in history, offered by the Faculty of Political Science, are open to seniors and specially qualified juniors. Written approval in advance of election and registration must be obtained from the chairman of the Barnard section of the Department of History. Ordinarily such approval will be granted only to students who have completed at least 18 points of history in Barnard, but in particular cases the department may consider as equivalent thereto other courses in the social sciences.

***105 — History of European thought and culture.** Professor MUZZEY and Miss YOUNG. 3 points.

Tu. and Th. at 10 and a third hour to be arranged.

The intellectual development of man; the thought and culture of the ancient civilizations; the philosophy and institutions of the Middle Ages.

[***149, 150 — History of nationality and nationalism.** Professor HAYES and Mr. SAVELLE. 6 points.

An analysis of the principle of nationality and its relation to human nature, physical environment, biological heredity, and human culture; a survey of expressions of national consciousness among primitive and ancient peoples; a study of the factors accentuating national consciousness in western Europe from the fourteenth to the eighteenth century; a critical examination of the rise of nationalism in the nineteenth and twentieth centuries; an attempted appraisal of effects of current nationalism upon domestic politics and international relations.

Not given in 1930-31.]

***156 — Political and intellectual history of Europe, 1815-1870.** Professor LANGER and Mr. SAVELLE. 3 points.

Tu. and Th. at 2 and a third hour to be arranged.

[***197, 198 — History of American foreign relations.** Professor EARLE and Mr. SAVELLE. 6 points.

International relations of the American people from independence to world power. An attempt to understand the expansive forces of American national life in their relation to an evolving foreign policy. An analysis of the varied international interests of Americans and of such representative policies as isolation, the Monroe Doctrine, the open door, and the freedom of the seas.

Not given in 1930-31.]

Other courses in history numbered 100-200, offered by the Faculty of Political Science, may be taken by specially qualified Barnard seniors with the approval of the department.

HYGIENE

A1 (or A2) — Personal hygiene — Dr. ALSOP. 2 points.

Winter session only: A1 — M. and W. at 11 (I); Tu. and Th. at 2 (II).

Spring session only: A2 — M. and W. at 1 (I); Tu. and Th. at 11 (II).

Prescribed for freshmen.

A study of the laws of health.

ITALIAN. See Romance Languages and Literatures.

LATIN. See Greek and Latin.

MATHEMATICS

The courses in mathematics are arranged in two sequences, either of which is suitable for students electing mathematics as a cultural subject.

Sequence A is designed for students whose major interest lies in mathematics or in physics. In the courses of this sequence emphasis is placed on the formal and logical development of the subjects and also on the technic of operations and processes involved.

Sequence B is designed to meet the needs of students whose major interest lies in natural sciences other than physics, or in the social sciences. In the courses of Sequence B emphasis is placed on the practical application of elementary mathematics in the fields of science and social science. The cultural and vocational aspects of trigonometry, analytic geometry, the calculus, elementary mathematical statistics and graphical methods are stressed.

The arrangement of courses in both sequences admits of considerable flexibility. For example, a student who has elected in her freshman year courses in Sequence B can, without any handicap, change to Sequence A at the beginning of her sophomore year. A similar shift may be made from Sequence A to Sequence B, but students must consult the department to avoid duplication of work.

A major in Mathematics. — Students majoring in mathematics will be required to take in Mathematics — 28 points selected from Sequence A. With the approval of the department, courses in Sequence B may also count toward the major.
Other fields — The work will vary with the special interest of the student and must be arranged in consultation with the major department.

Honors Course (See page 37). — The comprehensive examination assumes (a) a general knowledge of algebra, geometry and analysis; (b) a more thorough acquaintance with one of these divisions and of a special field within it; (c) familiarity with the history and literature of mathematics, including the ready use of French and German texts; (d) a fair knowledge of a second subject approved by the department and selected from a list including the sciences generally as well as other appropriate departments of knowledge. For further information and adjustment of requirements to individual cases, candidates should consult the officers of the department.

Sequence A

1 (or 2r) — Trigonometry. Professor SMITH, Dr. HOFMANN and Mr. RAUDENBUSH. 3 points.

Winter session only: 1 — M., W. and F. at 11 (I), at 2 (II).

Spring session only: 2r — Tu., Th. and S. at 10.

22 (or 21r) — Analytic geometry. Professor SMITH, Dr. HOFMANN and Mr. RAUDENBUSH. 3 points.

Winter session only: 21r — Tu., Th. and S. at 10.

Spring session only: 22 — M., W. and F. at 11 (I), at 2 (II).

Prerequisite, Course 1 or Course 7, Sequence B.

Introduction to the analytic geometry of the plane and of space.

[**6** — Solid geometry and spherical trigonometry. Mr. RAUDENBUSH. 3 points.

Prerequisite, Course 1 or Course 7, Sequence B.

A study of the usual theorems on lines, surfaces and solids. The spherical triangle and its solution.

Not given in 1930-31.]

23 — Algebra and theory of equations. Dr. HOFMANN. 3 points.

Tu., Th. and S. at 10.

Prerequisite, Course 1 or Course 7, Sequence B.

Complex numbers, theory of equations, determinants, series and exponential functions, partial fractions, mathematical induction.

30 — See Sequence B.

31-32 (or 32r-31r) — Calculus. Professor MULLINS, Dr. HOFMANN and Mr. RAUDENBUSH. 6 points.

Beginning in September: 31-32 — M., W. and F. at 9.

Beginning in February: 32r (the equivalent of 31) — Tu., Th. and S. at 10.

Continuing in September: 31r (the equivalent of 32) — M., W. and F. at 3.

Prerequisite, Course 22 or Course 7-8, Sequence B.

Differential and integral calculus.

33 (or 34r) — Calculus. Professor MULLINS and Mr. RAUDENBUSH. 3 points.

Winter session only: 33 — M., W. and F. at 2.

Spring session only: 34r — M., W. and F. at 3.

Prerequisite, Course 31-32.

Continuation of the study of calculus. Differential equations.

[43 — The theory of space and time. Professor SMITH. 3 points.

Prerequisite, Course 31-32.

Foundation of Euclidean geometry; transformations, vectors and tensors; non-Euclidean geometry; the special theory of relativity.

Not given in 1930-31.]

45 — Analytic geometry of space and hyperspace. Professor SMITH. 3 points.

M., W. and F. at 3.

Prerequisite, Course 31-32.

Linear equations, transformations, vectors, forms and invariants.

[46 — Introduction to the theory of plane algebraic curves. Dr. HOFMANN. 3 points.

Prerequisite, Courses 23 and 31.

Trilinear coördinates; general properties of algebraic curves; singularities; Plücker's formulas; intersections; linear systems of curves; special curves.

Not given in 1930-31.]

56 — Differential equations. Professor SMITH. 3 points.

M., W. and F. at 3.

Prerequisite, Course 33.

An elementary course in differential equations.

127 — Projective geometry. Dr. HOFMANN. 3 points.

Tu., Th. and S. at 9.

Prerequisite, Courses 23 and 31-32.

Analytic treatment of projective geometry on the line and in the plane. Homogeneous projective coördinates. The law of duality. Collinear and correlative transformations. The theory of point pairs and of conic sections.

128 — Algebraic geometry. Dr. HOFMANN. 3 points.

Tu., Th. and S. at 9.

Prerequisite, Course 127.

Linear systems of curves in the plane. The quadratic and the general birational transformation of the plane. Linear point series on plane algebraic curves. Algebraic curves in space and hyperspace. The genus of a curve.

133, 134 — Fundamental concepts of modern mathematics. Professor KASNER. 6 points.

M., W. and F. at 11.

Prerequisite or parallel, Course 31-32.

Some of the results of recent investigation, especially in their bearing on elementary mathematics: Euclidean and higher constructions; dimensionality and coördinates; the geometry of motion, transformations, groups and invariants; the concepts of number and function; infinity and the theory of assemblages; the theory of relativity.

[135, 136 — General introduction to higher mathematics. Professor KASNER. 6 points.

Prerequisite or parallel, Course 31-32.

Development of the number system. Functions of a real variable; infinite series; differential equations, including graphical methods. Complex and hypercomplex numbers; vector geometry; conformal representation. Groups, finite and continuous. Non-Euclidean and n -dimensional geometry. Mathematical physics.

Not given in 1930-31.]

Sequence B

7-8 — Mathematical analysis. Professor MULLINS and Mr. RAUDENBUSH. 6 points.

M., W. and F. at 10 (I), at 2 (II); Tu., Th. and S. at 9 (III).

Winter session: Coördinates, graphs, frequency curves, index notation, common logarithms and their application, trigonometry and its application. Spring session: Analytic geometry: the straight line, the circle, the conic sections and exponential curves. Elementary treatment of the calculus and its application in finding rates, maximum and minimum values and areas. Graphical solution of polynomial equations.

30 — Graphical and numerical methods. Professor MULLINS. 3 points.

M., W. and F. at 2.

Prerequisite, Course 7-8 or Course 22, Sequence A.

Nomographic charts for calculation, solution of equations by graphica and numerical methods, numerical integration, numerical solutions of differential equations.

MINERALOGY. See Geography, Geology and Mineralogy.

MUSIC

A major in Music. The courses in music are grouped under three main headings:

- A. Esthetics and history.
- B. Theory.
- C. Applied music.

Students majoring in music should select one of the first two branches. They must take elementary work in both branches and advanced courses in one of them.

Other fields: Courses in other departments, depending upon the need of the individual.

Practice Rooms. The department provides practice rooms for the use of students of organ and piano. Preference is given in assigning hours to those enrolled in courses given by the department.

Application for practice time should be made to the department secretary in Room 703 Journalism.

Library. The department maintains in Room 703 Journalism a lending library of books and scores which is available to all students of the University.

In addition to the library there is a laboratory in Room 705 Journalism of reproducing music for the use of students.

A. Esthetics and History

***1-2 — A survey of music.** Professor MOORE. 4 points.

Tu. and Th. at 11. 701 Journalism.

Winter session: The materials of music. A study of the elements of musical structure designed to form intelligent habits of listening to music. No previous knowledge of music is required.

Spring session: The literature of music. A rapid survey of the great composers and their contrasting styles as exemplified by their most important compositions.

***3 — Beethoven.** Professor MASON. 2 points.

M. and W. at 10. 701 Journalism.

Prerequisite, except by special permission, Course 1-2 with a grade of A or B.

A study of the life and works of the composer with musical illustrations.

***4 — Great modern symphonists.** Professor MASON. 2 points.

M. and W. at 10. 701 Journalism.

Prerequisite, except by special permission, Course 1-2 with a grade of A or B.

An analysis of the symphonic works of such nineteenth-century composers as Schubert, Schumann, Mendelssohn, Franck, Tschaikovsky, Brahms and Strauss.

***11-12 — Masterpieces of music.** Professor MOORE. 4 points.

Tu. and Th. at 2. 701 Journalism.

Open to a limited number of students with the consent of the instructor. Designed to succeed Courses 1-2 and 3, 4 or 5, 6.

Analytical and historical studies of selected great musical compositions.

***101-102 — Symphonic analysis.** Professor MASON. 4 points.

M. and W. at 11. 701 Journalism.

Prerequisite, Courses 1-2; 3, 4 or 5, 6, e33-e34.

105 — Physical basis of music and musical instruments. Professor MALTBY. 3 points.

Hours to be arranged.

Open to undergraduates only by permission of the instructor.

The nature of the vibrations of sounding bodies and of the medium transmitting the sound; the physical characteristics of tones; the production of tones by different classes of musical instruments including some types of apparatus for the mechanical reproduction of music; the mechanism of the ear for the detection of the characteristics of musical tones; the acoustics of auditoriums.

The subjects will be illustrated by physical apparatus and by musical instruments. Some excursions will be made for the best illustrative material.

B. Theory

***31-32 — Harmony.** Professor BINGHAM and Mr. HOUGH. 6 points.

M., W. and F. at 1 (I); M., 1-2 and 4-6 (II). 701 Journalism.

Prerequisite, a knowledge of musical notation, an accurate ear, and the ability to play simple chord successions on the piano.

***35-36 — Counterpoint.** Professor BINGHAM. 4 points.

W. and F. at 10. 707 Journalism.

Prerequisite, Course 31-32.

***131-132 — Composition.** Professor BINGHAM. 4 points.

W. and F. at 9. 707 Journalism.

Students are advised, though not required, to take Course e33-e34 before Course 131-132.

For a course in advanced harmony students are referred to the extension course Music e33-e34.

C. Applied music

***63-64 — University orchestra.** Professor MOORE. 2 points, only if taken parallel to a theoretical or historical course in music.

M., 4-6 and W., 8-10. Music room, John Jay Hall.

Open to students only after consultation with the instructor.

The ability to play an orchestral instrument will be required for admission. Standard symphonic works are studied and performed publicly during the season.

65-66 — Ensemble playing. Mr. DITTLER and Mr. HOUGH. 2 points, only if taken parallel to a theoretical or historical course in music.

One hour a week. Time to be arranged. 707 Journalism.

75-76 — Choral singing. Mr. DOERSAM. 2 points, only if taken parallel to a theoretical or historical course in music.

Tu., 4-5:30. Barnard Hall.

67-68 — Violin playing. Mr. DITTLER. 2 points, only if taken parallel to a theoretical or historical course in music.

Private lessons at hours to be arranged. 704 Journalism.

Special fee, \$100 each session.

Individual instruction in the technic of the instrument and in interpretation.

83-84 — Organ playing. Mr. DOERSAM. 2 points, only if taken parallel to a theoretical or historical course in music.

Private lessons at hours to be arranged. St. Paul's Chapel.

Special fee, \$100 each session.

Open to students only after consultation with the instructor.

Individual instruction in the technic of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers.

91-92 — Piano playing. Mr. HOUGH. 2 points, only if taken parallel to a theoretical or historical course in music.

Private lessons at hours to be arranged. 706 Journalism.

Special fee, \$100 each session.

Individual instruction in the technic of the instrument and in interpretation.

PHILOSOPHY

A major in Philosophy. — Students majoring in philosophy will be required to take in Philosophy — Courses 1; 12; 61-62; and other courses to be arranged in consultation with the department.

Other fields — Psychology 1 and other courses which will vary with the special interest of the student, and should be arranged in consultation with the major department.

Honors Course (see page 37). — The comprehensive examination for students in the honors course assumes: (a) general knowledge of the history of European philosophy and a first-hand acquaintance with the principal writings of one ancient and two modern philosophers; (b) familiarity with the four main types of cosmological theory and a special knowledge of one of them; (c) acquaintance with the facts and theories of general esthetics and familiarity with their special application to one of the arts; (d) some proficiency in the theory and practice of formal logic; (e) knowledge of the history and problems of ethical theory; (f) the equivalent of at least 6 points of psychology and at least 12 points of intensive work in some branch of natural science, social science or literature, such cognate study to be chosen and carried on in consultation with the Department of Philosophy.

1 (or 2) — Introduction to philosophy. Professors MONTAGUE and PARKHURST and Dr. LEAVENWORTH. 3 points.

Winter session: 1a — M., W. and F. at 10.

1b — Tu., Th. and S. at 9.

1c — Tu., Th. and S. at 10.

Spring session: 2a — M., W. and F. at 9.

2b — Tu., Th. and S. at 9.

2c — Tu., Th. and S. at 10.

3-4 — Logic, inductive and deductive. Professor MONTAGUE. 4 points.
F. at 11.

A brief survey of the principles of definition and classification, of syllogistic reasoning and of Mill's canons of induction.

12 — The metaphysics of vitalism. Professors MONTAGUE and PARKHURST. 3 points.

M., W. and F. at 11.

Prerequisite, Course 1 (or 2).

A study of McDougall, Bergson, James and Schiller.

21-22 — Ethics: a study of contrasting ideals of life and conduct. Dr. LEAVENWORTH. 4 points.

Tu. and Th. at 2.

Open to juniors and seniors and, after consultation with the department, to specially qualified sophomores.

41-42 — General esthetics. Professor PARKHURST. 6 points.

Tu. and Th. at 9.

Open to juniors and seniors and, after consultation with the department, to specially qualified sophomores.

The study of the tragic, the comic, the sublime and the beautiful and a psychological analysis of the origins, interrelations, subject-matter and purpose of the arts, with special emphasis upon the laws of color harmony, rhythm and symmetry as exemplified in the major arts, such as architecture, sculpture, painting and music, and in the minor arts such as dress and interior decoration.

43-44 — Investigations in esthetics. Professor PARKHURST. 4 points.

Th. at 11.

Prerequisite, Course 41-42 or the equivalent.

A treatment of certain general problems, such as rhythm, and of certain specific problems of the particular arts, such as poetic imagery.

45-46 — The esthetics of prose and poetry. Professor PARKHURST. 4 points.

Tu. and Th. at 10.

Open only after consultation with the instructor.

A study of prose and poetic rhythms, stanzaic patterns, poetic words and the nature of metaphor. A number of very short exercises in translation and description will be required.

[51-52 — Symbolism.] Professor PARKHURST. 4 points.

A study of the use of symbols in art, religion and speech.

Not given in 1930-31.]

61-62 — The history of philosophy. Professor MONTAGUE. 6 points.

M., W. and F. at 9.

Open to juniors and seniors and, after consultation with the department, to specially qualified sophomores.

66 — Philosophy of religion. Professor BUSH and assistant. 3 points.

Tu. and Th. at 11, and a third hour to be arranged.

Open to juniors and seniors who have taken or are taking a course in anthropology or in the history of philosophy.

79 — Contemporary philosophy. Professor PARKHURST. 2 points.

W. and F. at 11.

Prerequisite, Course 1 or 61-62.

PHYSICAL EDUCATION

A physical and medical examination is required of all entering students.

A1, A2 — Gymnastics and rhythmic fundamentals. 2 hours.

M. and W. at 10 (I), at 11 (II), at 2 (III), at 3 (IV).

And athletics, games, dancing or swimming.

1 hour.

Hour to be arranged on Tu., Th. or F.

Prescribed for freshmen.

A course in personal hygiene (Hygiene A) is also prescribed for freshmen.

As soon as possible after the medical and physical tests are completed, each freshman will be given a motor ability test and a test in swimming. As a result of the first three tests, each student will be given a *physical efficiency rating*; the test results will be used as a basis for deciding the type of physical activity the student will enter. A *high physical efficiency rating* will make it possible for a student to *elect* her type of activity after the first year.

A medical and physical examination, a motor ability test and a swimming test will be required at the end of the spring session.

A student entering as a freshman in February must complete her freshman requirement before beginning Course C.

B1, B2 — Natural dancing and other activities. 2 hours.

Tu. and Th. at 10 (I), at 11 (II), at 2 (III), at 3 (IV).

The type of activity offered will vary with the season.

And athletics, games, dancing or swimming.

1 hour.

Hour to be arranged on M., W. or F.

Prescribed for sophomores.

C1, C2 — Athletics, games, dancing, swimming or prescribed work, to be elected in any authorized activity, depending upon the student's physical condition. Specific work will be prescribed only in special cases. 2 hours.

Hours to be arranged.

Prescribed for juniors.

D1, D2 — Athletics, games, dancing, and swimming. Substitution of approved activities will be allowed in special cases. 2 hours.

Hours to be arranged.

Prescribed for seniors.

Seniors who pass the senior exemption tests are excused from supervised work during their last term in college.

Students wishing to qualify as camp councillors or social workers are urged to choose their electives accordingly.

The Red Cross Life Saving Course and tests will be given each session and may be counted as a regular elective for juniors and seniors.

101, 102 — Graded gymnastics, dancing, organized games, and swimming for women graduate students under the Faculties of Philosophy, Political Science and Pure Science, and women students in the professional schools of the University. 3 hours. 1 point each session.

All regular sections are open provided the registration is not already filled by undergraduate students.

The prescribed gymnasium and field costume consists of dark blue bloomers, special blouses trimmed with class colors, a sleeveless jersey, high white tennis shoes and a special costume for dancing. Approximate cost, \$12. Swimming suits, \$2.00. For further information inquire at Barnard Hall.

PHYSICS

A major in Physics. — Students majoring in physics will be required to take in Physics — Courses to be arranged in consultation with the department.

Other fields — Mathematics: analytics, differential and integral calculus, and if possible, differential equations.

Chemistry — 1 year's work.

A reading knowledge of French and German by the beginning of the junior year.

A course in another natural science.

Honors Course (see page 37). — The comprehensive examination assumes, in addition to the requirements for students majoring in physics, that the students have supplemented the ground covered in the announced courses by (a) readings and reports on the theory and wider applications in various fields; (b) readings and reports upon the history of the development of important principles, including some study of the lives of principal contributors to the development of the science; (c) more advanced laboratory experiments in some field; (d) the independent solution of some theoretical or experimental problem in the field of major interest.

11-12 — General physics. Professors MALTBY and LANGFORD and Miss TOWNSEND. 8 points.

M., W. and F. at 11, and 2 hours of laboratory work, M., 1-4, or Tu., 9-12 or 2-4, or hours may be arranged. Pre-medical students are required to take 3 hours of laboratory work, 9 points, preferably 2 hours in the winter session and 4 hours in the spring session.

Open to all students.

Prerequisite or parallel, Mathematics 1, 22 or 7-8.

31 — Mechanics. Professor LANGFORD. 4 or 5 points.

M., W. and F. at 9 (or hours to be arranged), and 2 or 4 hours of laboratory work.

Prerequisite, Course 11-12, except by special arrangement.

32 — Heat and properties of matter. Professor LANGFORD. 4 or 5 points.

M., W. and F. at 9 (or hours to be arranged), and 2 or 4 hours of laboratory work.

Prerequisite, Course 31, except by special arrangement.

33 — Sound. Professor MALTBY. 4 points.

Hours to be arranged for 3 lectures or discussions and 2 hours of laboratory work.

Prerequisite, Course 11-12.

34 — Light. Professor LANGFORD. 4 or 5 points.

Hours to be arranged for 3 lectures and 2 or 4 hours of laboratory work.

Prerequisite, Course 11-12.

35 — Electricity and magnetism. Professor LANGFORD. 4 or 5 points.

M., W. and F. at 1, and 2 or 4 hours of laboratory work.

Prerequisite, Courses 31 and 32, except by special arrangement.

36 — Electricity. Professor LANGFORD. 4 or 5 points.

M., W. and F. at 1, and 2 or 4 hours of laboratory work.

Prerequisite, Course 35.

37, 38 — Supplementary laboratory work in mechanics, heat, light, or electricity to meet the needs of individual students may be arranged in consultation with the instructor. Professor LANGFORD.

Hours and credit by arrangement.

137 — History of the development of some fundamental theories in physics. Professor MALTBY. Readings, reports and discussions. 3 points.

Hours to be arranged.

Prerequisite, some of the advanced courses in physics.

This course is designed to give the students a more comprehensive view of the development of certain fundamental theories, of the experiments which have been crucial, and the bearing of experimental evidence from various fields of physics upon these theories.

138 — Theory of electricity. Professor MALTBY. Readings, reports and discussions. 3 points.

Hours to be arranged.

Prerequisite, Courses 35, 36.

PSYCHOLOGY

A major in psychology will satisfy the requirement in Group II. Students majoring in this subject must satisfy the 14-point requirement in Group III in subjects other than psychology. For other students, beginning with the Class of 1932, courses in psychology will count toward the requirement in the group indicated for each course by the statement made in connection with the point value.

A major in Psychology. — Students majoring in psychology will be required to take in Psychology — Courses 1; 7-8; 19, 20; and eleven additional points with the advice of the department.

Other fields — the following definite courses: 1 year in philosophy (6 points); 1 year (8 points) fundamental course, with laboratory, in another science.

Certain other work in social sciences, languages, literature, mathematics, fine arts or education, which will vary with the special interest of the student and should be arranged in consultation with the major department.

Honors Course (see page 37). — The comprehensive examination for students in the honors course assumes: (a) knowledge of systematic, experimental, comparative, developmental, abnormal and physiological psychology; (b) special familiarity with experimental technics, methods of mental measurement, and some field of psychotechnic application; (c) first-hand acquaintance with the history, literature and current status of some particular problem, and an original effort to investigate some question relating thereto; (d) collateral knowledge of

1. Two related fields, — as zoölogy, physiology, philosophy, sociology, education, anthropology.

2. The French and the German languages, and statistical methods, in so far as these are implied by the foregoing requirements.

1 (or 2) — Introduction to psychology. Professor GATES, Dr. SEWARD and Miss ANASTASI. 3 points in Group III.

Winter session: 1a — M., W. and F. at 9.

1b — M., W. and F. at 10.

1c — Tu., Th. and S. at 9.

1d — Tu., Th. and S. at 10.

Spring session: 2a — M., W. and F. at 9.

2b — M., W. and F. at 10.

2c — Tu., Th. and S. at 9.

2d — Tu., Th. and S. at 10.

An introduction to the chief facts, principles and problems of normal adult psychology, through systematic study of a text, lectures, exercises and reading in special fields. This course is a prerequisite to all other courses in psychology and in education.

Educational psychology. Professors HOLLINGWORTH and GATES and Miss PALLISTER. 3 points either session. See Education 07A (page 71).

7-8 — Experimental psychology. Professor HOLLINGWORTH, Dr. SEWARD and Miss ANASTASI. 8 points in Group II.

M. and W., 1-4 (I), or Tu. and Th., 2-5 (II), each section limited to not over 30 students for lectures and laboratory work.

Prerequisite, Course 1 (or 2).

The course presents the chief problems, methods and results of experimental psychology. Each student conducts a series of typical individual experiments, participates in certain group experiments, prepares systematic reports of results and becomes familiar with the literature of experimental psychology.

19 — Developmental psychology. Professor HOLLINGWORTH. 3 points in Group II.

Tu. and Th. at 11.

Prerequisite, Course 1 (or 2).

A survey of mental origins, of the developmental stages of human life through infancy, childhood, youth, maturity and old age, with special reference to biological, psychological and social factors in individual growth and adjustment.

20 — Abnormal psychology. Professor HOLLINGWORTH. 3 points in Group II.

Tu. and Th. at 11.

Prerequisite, Course 7 or 19.

A general survey of the field of psychopathology, the history of the subject, the more common forms of mental inadequacy and disturbance, and their psychological interpretation, including the principles of mental hygiene and psychotherapy. Lectures, reading, lantern slides and case studies.

21 — Applications of psychology. Miss ANASTASI. 2 points in Group III.

M. and W. at 10.

Prerequisite, Course 1 (or 2).

Applications of psychology to vocational guidance and selection; industrial management; advertising; detection and treatment of delinquent and criminal; with special emphasis on development and application of technics of mental measurement.

22 — Differential psychology. Miss ANASTASI. 2 points in Group III.

M. and W. at 10.

Prerequisite, Course 7 except for pre-journalism students.

A survey of group differences as related to sex, race, age, cultural, social and economic status, urban and rural populations; twin, sibling and other family resemblances; individual differences, their magnitude and distribution; trait differences and variability within the individual; current theories on the nature of mental organization.

27 — Comparative psychology. Dr. SEWARD. 2 points in Group III.

Tu. and Th. at 10.

Prerequisite, Course 1 (or 2).

A survey of the psychology of animal behavior.

38 — Social psychology. Dr. SEWARD. 2 points in Group III.

Tu. and Th. at 10.

Prerequisite, Course 1 (or 2).

Studies of the psychology of social relations, institutions, conventions, of native and acquired forms of social behavior, analysis of differences in groups as determined by sex, race and environment. Lectures, reports and discussions.

48 — Advanced problems. Professors HOLLINGWORTH and GATES. 2 points in Group II.

W., 2-4.

Prerequisite, Course 107 and the consent of the instructor.

Qualified senior majors planning graduate study may begin the investigation of current problems in coöperation with the instructor, thus securing an introduction to the methods of graduate work.

107 — Contemporary problems. Professors HOLLINGWORTH and GATES. 2 points in Group II.

W., 2-4.

Prerequisite, Course 7-8.

A survey of topics to which the instructor and former students have contributed, with indications of outstanding problems and plans for their investigation. Of interest to senior majors planning graduate work in psychology.

117-118 — Systematic psychology. Professor HOLLINGWORTH. 6 points in Group III.

Tu. and Th. at 9

Open to juniors and seniors with at least 6 points in psychology and the consent of the department.

A comparative and critical survey of the more influential points of view in psychology, with an endeavor to organize them into a consistent system of facts and principles. Reading, reports and discussion.

PUBLIC LAW. See Government.

RELIGION

1, 2 — The Bible. Chaplain KNOX. 4 points.

Tu. and Th. at 11.

Course 2 is a continuation of Course 1, but either course may be taken separately.

A thorough study of the Bible in the light of modern scholarship. Class-room exercises will follow a printed syllabus.

Winter session: How the Old Testament was written, the stories of Genesis, their origin and meaning, the decalogue and other ancient codes, the lives and teachings of the prophets; the growth of religious ideas and ethical standards throughout Biblical history.

Spring session: The books of Job, Jonah and Daniel of the Old Testament, and the study of the New Testament; how the Gospels were written and their content; also the letters of Paul and the Book of Revelation.

3, 4 — A study of religions. Professor FRIESS. 4 or, with the permission of the instructor, 6 points.

Tu. and Th. at 2.

Open to all excepting freshmen.

Investigation and discussion of the forms and functions which religion has assumed historically and in contemporary society. Readings in primary sources and critical literature; photographs and slides illustrating the ceremonial practices and religious art of the major traditions. The subject-matter in the winter session will be drawn principally from Far Eastern religions; in the spring session, from the Western World, ancient, medieval and modern.

5 — The poetry and wisdom literature of the Hebrew people. Dr. MARY ELY LYMAN. 2 points.

M. and W. at 1.

Prerequisite, Courses 1 and 2.

The poetry and philosophy of the Hebrews; their characteristic forms and interests; their place in the religious life of the Hebrews; their permanent religious significance.

6 — The Gospels. Dr. MARY ELY LYMAN. 2 points.

M. and W. at 1.

Prerequisite, Courses 1 and 2.

The four gospels as biographies of Jesus, and as religious literature; the circumstances under which they were written; their authorship, and relation to each other; their significance in the developing life of the early Christian community, and at the present time.

ROMANCE LANGUAGES AND LITERATURES

FRENCH

A major in French. — Students majoring in French will be required to take in French — Courses 11, 12; 19, 20; 27, 28 or 29, 30, and other courses to be arranged in consultation with the department.

Other fields — Courses which will vary with the special interest of the student and should be arranged in consultation with the major department.

Honors Course (see page 37). — The comprehensive examination assumes (a) the ability to use French correctly as a mode of expression both in speaking and in writing; (b) a general knowledge of the history of French literature from its origin to the present day; (c) a more thorough knowledge of a century or period.

Students are also expected to show that they have followed courses in history and philosophy, and that they have a reading knowledge of Italian or Spanish, and a working knowledge of German.

(Note: If need be, a parallel course for honors could be arranged for students wishing to make Spanish their subject of major interest.)

(See also *Introduction to the science of language*, p. 109.)

Language courses

C1 — The study of language. Professor LOISEAUX. No credit.

Hours to be arranged.

Prescribed for students in language courses.

Six lectures, between September 29 and October 18, intended to give students practical suggestions on their language study.

1a-2a — Elementary course. Miss NOLLET. 6 points.

M., W. and F. at 9.

Phonetics, grammar, reading, conversation.

1b, 2b — Reading, composition, syntax, phonetics. Professor PRENEZ and Miss BIÉLER. 6 points.

M., W. and F. at 1 (I); Tu., Th. and S. at 9 (II).

Prerequisite to Course 1b, Course 1a-2a or elementary entrance French.

Prerequisite to Course 2b, Course 1b or intermediate entrance French.

3, 4 — Modern French prose; review of grammar. Misses BIÉLER and NOLLET, Mrs. MAGUE and Dr. STURDEVANT. 6 points.

M., W. and F. at 9 (I), at 10 (II), at 2 (III); Tu., Th. and S. at 9 (IV), at 10 (V).

Prerequisite, Course 2a with a grade of at least B or Course 2b or intermediate entrance French.

5, 6 — Practical phonetics applied to French. Professor LOISEAUX. 2 hours. 2 points.

M. and W. at 1.

Prerequisite, Course 2b or any higher course. This course is divisible only for students who are taking another French course.

In connection with Course 6, a series of conferences will be arranged for seniors who intend to teach French.

7, 8 — Intermediate French composition. Misses BIÉLER and NOLLET, Mrs. MAGUE and Dr. STURDEVANT. 4 points.

M. and W. at 9 (I), at 10 (II); Tu. and Th. at 10 (III), at 11 (IV).

Prerequisite, Course 2b with a grade of A, or Course 3, 4 or a high grade in intermediate entrance French.

Review of French syntax; study of prose construction; dictation and conversation.

9, 10 — Advanced French composition.¹ Professor LE DUC. 4 points.

Tu. and Th. at 3.

Open to students only after consultation with the instructor. Limited to 20 students.

Intended for students with a fair knowledge of French who desire further practice in descriptive and narrative writing, oral composition, and the rendering of English texts into French.

9a, 10a — Advanced conversation.¹ Miss NOLLET. 2 points if taken parallel in either session to another French course.

Th. at 1.

Open to students only after consultation with the instructor. Limited to 15 students. Divisible only for students who are taking another French course.

Discussion and reports on assigned readings.

Literature courses

Students are reminded that the ability to use French both in speaking and writing is considered a general requirement for all literature courses.

11, 12 — General introduction to the study of French literature. Professors LE DUC and PRENEZ, Miss BIÉLER and Dr. STURDEVANT. 6 points.

Th. at 1, and in sections as follows: M. and W. at 9 (I), at 10 (II), at 1 (III); Tu., and Th. at 10 (IV).

Prerequisite, Course 3, 4 or a high rating in intermediate entrance French or the equivalent.

A survey of French literature, including the reading of at least one work from each leading author from the seventeenth century to the present time. Reading, composition, lectures.

¹ Conducted entirely in French.

GROUP A

Prerequisite, Course 11, 12 or the equivalent, excepting for Course 13, 14.

13, 14 — Outlines of French history.¹ Professor LOISEAUX. 2 points if taken parallel in either session to another French course.

F. at 11.

Prerequisite, Course 3, 4 or the equivalent. Divisible only for students who are taking another French course.

A survey of the important events of French history with special emphasis on their relation to literature.

15, 16 — French literature in the nineteenth century to 1870.¹ Professor PRENEZ. 6 points.

M., W. and F. at 10.

Development of lyric poetry, the novel and the theatre during the romantic movement.

17, 18 — French literature from 1870 to the present day.¹ Professor PRENEZ. 6 points.

M., W. and F. at 11.

A study of the various tendencies and literary developments which occurred during the latter part of the nineteenth century and the beginning of the present century.

19, 20 — French literature in the seventeenth century.¹ Professor LOISEAUX. 6 points.

M., W. and F. at 10.

The political, social and artistic life of the country as expressed in the works of the great writers of the classical period.

21, 22 — History of the French novel.¹ Professor LE DUC. 6 points.

Tu. and Th. at 11.

A study of the development of the novel in France, from the seventeenth to the twentieth centuries. Lectures, conferences, reports, papers.

23, 24 — History of the French drama.¹ Professor MULLER. 6 points.

M., W. and F. at 2.

General survey of the development of the French drama from its origin to the present time; the most representative plays of the different periods.

GROUP B

Prerequisite, 6 points of Group A except by special permission.

[**25, 26 — Development of French lyric poetry.¹** Professor PRENEZ. 4 or 6 points.

Lyric poetry in France from the origins to the present day. Study of French verse and its evolution. The various schools of poetry; their history, influence and decline.

Not given in 1930-31.]

¹ Conducted entirely in French.

27, 28 — Old French.¹ Dr. STURDEVANT. 4 points.

Tu. and Th. at 2.

Prerequisite, Course 11, 12 and Latin 1-2 or the equivalent.

Reading of texts from the time of the *Chanson de Roland* to the fifteenth century with emphasis on works having a special bearing on English literature.

29, 30 — French literature in the sixteenth century.¹ Professor LEDUC. 4 or 6 points.

Tu. and Th. at 2.

The literature of the sixteenth century with readings from Rabelais, Ronsard, Montaigne, etc.; the development of humanism and foreign influences.

31, 32 — History of French civilization.¹ Professor LOISEAUX. 4 points.

M. and W. at 11.

Open to students only after consultation with the instructor.

General survey of the development of French civilization from the Roman conquest to the present day; the political, artistic, literary and scientific activities of the French people in the formation of their national life, and their contribution to human progress.

***113, 114 — French literature in the eighteenth century.**¹ Professor LOISEAUX. 6 points.

M. and W. at 3.

Prerequisite, Course 19, 20.

The spirit of the eighteenth century and its influence on the French Revolution and modern thought will be studied in the lives and works of Montesquieu, Voltaire, Rousseau, the Encyclopedists and the minor writers.

Other courses given at Columbia University are described in the Announcement of the Division of Modern Languages and Literatures.

ITALIAN

A major in Italian. — Students majoring in Italian will be required to take in Italian. — Courses 13, 14; 15-16; 19, 20; 21-22, and other courses to be arranged in consultation with the department.

Other fields. — Classical Civilization 57, 58; English 53; Fine Arts 28, 29, 38; History 7, 8, 105, 106; Philosophy 61-62.
Two years of French or German.

Honors Course (see page 37). The comprehensive examination assumes (a) the ability to speak and write Italian with facility; (b) a general knowledge of Italian literature from its origin to the present day; (c) a more thorough knowledge of some particular century or period; (d) some familiarity with the development of Italian political, economic and social institutions and with Italian art; (e) a reading knowledge of French and of German.

Language courses

1-2 — Elementary course. Professor RICCIO and Miss CARBONARA. 6 points.

M., W. and F. at 9 (I), at 1 (II).

Grammar, reading, composition and conversation.

This course may not be taken at the same time as Spanish 1a-2a.

1a, 2a — Italian conversation. Miss CARBONARA. No preparation, no credit. Hours to be arranged.

Intended to furnish extra aural and oral practice to students taking Course 1-2 who find difficulty in hearing and speaking the language.

¹ Conducted entirely in French.

3, 4 — Italian composition. Miss CARBONARA. 4 points.
 Tu. and Th. at 11.
 Prerequisite Course **1-2**.

11, 12 — Advanced conversation. Professor RICCIO. 2 points.
 Th. at 1.

Literature courses

13, 14 — Modern Italian literature.¹ Professor RICCIO. 6 points.
 Tu., Th. and S. at 9.
 Prerequisite, Course **1-2**.

Reading and discussions of the most significant works of the nineteenth century and contemporary Italy.

15-16 — Dante and mediaeval culture.¹ Professor BIGONGIARI and Miss CARBONARA. 6 points.
 M., W. and F. at 2.
 Prerequisite, Course **13, 14**.

19, 20 — Italian civilization. Miss CARBONARA. 6 points.
 M., W. and F. at 3.
 Open to all students. Conducted in English.
 A discussion of Italy's chief contributions to European culture.

21, 22 — Special reading.¹ Professor RICCIO and Miss CARBONARA. 4 points.
 Hours to be arranged.
 Required of candidates for honors in Italian and major students.

For a course in History of Italian Literature, open to specially qualified seniors with the permission of the department and the Committee on Instruction, students are referred to the extension course, Italian e171-172.

Other courses given at Columbia University are described in the Announcement of the Division of Modern Languages and Literatures.

SPANISH

A major in Spanish. — Students majoring in Spanish will be required to take in Spanish — Courses 1b, 2b; 7, 8; 13, 14; 21-22; 17-18, and either 19, 20 or a more advanced course to be chosen in consultation with the department.
Other fields — Courses will vary with the special interest of the student and should be arranged in consultation with the major department.

Language courses

1a-2a — Elementary course. Mrs. DEL RIO. 6 points.
 M., W. and F. at 9 (I), at 11 (II).
 Grammar, reading, composition.
 This course may not be taken at the same time as Italian **1a-2a**.

1b, 2b — Advanced course. Professor MARCIAL-DORADO and Miss CASTELLANO. 6 points.
 M., W. and F. at 11 (I), at 1 (II).
 Prerequisite, Course **1a-2a**.
 A rapid review of grammar and syntax, the reading of typical works by modern authors; also composition and conversation.

¹ Conducted entirely in Italian.

7, 8 — Spanish composition. Miss CASTELLANO. 4 points.

Tu. and Th. at 9.

Prerequisite, Course 1b.

9, 10 — Advanced Spanish composition. Professor MARCIAL DORADO. 4 points.

W. and F. at 9.

Prerequisite, Course 2b.

11-12 — Spanish conversation. Miss CASTELLANO. 2 points if taken parallel in either session to another Spanish course.

Th. at 1.

Open to students only after consultation with the instructor. Limited to 15 students. Divisible only for students who are taking another Spanish course.

Discussions and reports on Spanish subjects.

Literature courses

13, 14 — Practical course and introduction to Spanish literature.¹ Professor MARCIAL-DORADO. 6 points.

M., W. and F. at 10.

Prerequisite, Course 1b, 2b.

Lectures on the history of Spanish literature and reading of selected works by representative authors, particularly Cervantes, Lope de Vega and Calderón; discussions and reports.

15-16 — The Spanish drama of the Golden Age. Miss CASTELLANO. 4 points.

Tu. and Th. at 2.

Prerequisite, Course 13, 14.

General survey of the development of the Spanish drama from its origin to the present time; reading and discussion of representative plays.

17-18 — History of Spanish literature in the nineteenth century.¹ Miss CASTELLANO. 4 points.

Tu. and Th. at 10.

Prerequisite, Course 13, 14.

Winter session: The romantic movement and lyric poetry. Spring session: Development of the novel.

153 — Contemporary movements in Hispanic literature.¹ Srta. GABRIELA MISTRAL. 2 points.

Tu. and Th. at 5.

Prerequisite, Course 13, 14.

The leading Hispanic writers of the twentieth century. Lectures and reports.

155 — Hispanic civilization.¹ Srta. GABRIELA MISTRAL. 2 points.

Tu. and Th. at 3.

Prerequisite, Course 13, 14 or the permission of the instructor.

A survey of the historical development of Spanish and Latin-American civilization and its significance in the life of the world to-day; the various aspects of Hispanic culture — literary, artistic, political and economic.

Other courses given at Columbia University are described in the Announcement of the Division of Modern Languages and Literatures.

¹ Conducted entirely in Spanish.

RUSSIAN. See Slavonic Languages.

SCIENCE OF LANGUAGE

1, 2 — Introduction to the science of language. Professor GRAY. 4 points.

Tu. and Th. at 2. 308 Philosophy.

Open to all excepting freshmen.

This course cannot count toward the major in any language.

Winter session: The nature and universal principles of language, its physiological and psychological foundations, and its relations to the various phenomena of human civilization; classification, distribution and characteristics of the types of language.

Spring session: Survey of the Indo-European languages; sound-changes and sound-laws; outlines of inflexion and syntax; development of the meaning of words.

The entire course is designed to give students in classics, modern languages, and English a general scientific knowledge of the principles common to all languages, particularly as found in the Indo-European group, and thus to aid them in gaining a better understanding of the languages in which they are specializing.

SLAVONIC LANGUAGES

RUSSIAN

***113, 114 — The Russian novelists.** Professor MANNING. 6 points.

M. and W. at 3.

Open to specially qualified seniors. A knowledge of Russian is not required.

A study of the works of Turgenev, Tolstoy and Dostoyevsky with special reference to their ideas their artistic methods and their influence on Russia.

Other courses given at Columbia University are described in the Announcement of the Division of Modern Languages and Literatures; courses in the Russian language are described in the Announcement of University Classes.

SOCIOLOGY. See Economics and Social Science.

SPANISH. See Romance Languages and Literatures.

ZOOLOGY

A major in Zoölogy. — Students majoring in zoölogy will be required to take in Zoölogy — Course 1-2, and other courses in combination or sequence which will vary with the individual interest and purpose of the student and should be arranged in consultation with the department.

Other fields. — The work will vary with the special interest of the student and should be arranged in consultation with the major department.

1-2 — General biology and general zoölogy. Elementary course. Professors CRAMPTON, GREGORY and LOWTHER, Misses TEWINKEL and KINNEY. 8 points.

Tu. and Th. at 2, and 4 hours of laboratory work, Tu. and Th., 3-5, or Tu. and Th., 9-12, or W. and F., 2-4.

5-6 — Heredity and evolution. Professor CRAMPTON. 4 points.

M. and W. at 3.

Prerequisite, Course 1-2.

13 — Histology and histological methods. Dr. FORBES. 5 points.
M. and W. at 1, and 6 hours of conferences and laboratory work, M., W. and
F., 2-4.

Prerequisite, Course 1-2.

14 — Embryology and embryological methods. Dr. FORBES. 2, 3 or 5 points,
according to amount of work to be arranged with the department before registra-
tion.

M. and W. at 1, and a maximum of 6 hours of conferences and laboratory work,
M., W. and F., 2-4.

Prerequisite, Course 1-2.

97-98 — Comparative morphology and physiology of vertebrates. Professors
GREGORY and LOWTHER and Miss TEWINKEL. 10 points.

W. and F. at 10, and 6 hours of laboratory work, Tu., 2-5; Th., 1-4.

Prerequisite, Course 1-2 and Chemistry 5-6.

Practical course in dissection and experimentation, with special reference to the mammalia.
Recommended for pre-medical students and technicians.

101, 102 — General zoölogy. Advanced course. Professors CRAMPTON and
LOWTHER. 12 points.

M., W. and F., 1-4, for lectures and 6 hours of laboratory work.

Prerequisite to Course 101, Course 1-2. Prerequisite to Course 102, Course
1-2 and 14, the latter of which may be taken concurrently.

Winter session: invertebrates. Spring session: vertebrates.

151, 152 — Advanced general and mammalian physiology. Professor GREGORY
and Dr. FORBES. 8 points.

Tu. and Th., 9-12, for lectures and 4 hours of demonstration and laboratory
work.

Prerequisite, Course 1-2, or the equivalent, and organic chemistry. Open to
juniors and seniors.

General principles of animal physiology.

SCHEME OF

Hours	MONDAY	TUESDAY	WEDNESDAY
A.M. 9	Chemistry 41-42 Economics 1-2 (I) English C2 (I) English 53, 54 French 1a-2a French 3, 4 (I) French 7, 8 (I) French 11, 12 (I) Geography 1, 2 German 1-2 (I) German 35 History 1-2 (I) History 5, 6 Italian 1-2 (I) Latin 3, 12r Latin 21, 22 Mathematics 31-32 Philosophy 2a Philosophy 61-62 Physics 31, 32 Psychology 1a (or 2a) Spanish 1a-2a (I)	Botany 53-54 Economics 25, 28 English C2 (III) English C5 (II) English 61, 62 English 77, 78 French 1b, 2b (II) French 3, 4 (IV) German 1-2 (V) Government 7, 8 History 1-2 (III) Italian 13, 14 Latin 11, 12 (II) Latin 25, 26 Mathematics 7-8 (III) Mathematics 127, 128 Philosophy 1b (or 2b) Philosophy 41-42 Psychology 1c (or 2c) Psychology 117-118 Sociology 16 Spanish 7, 8 Zoölogy 151, 152	Chemistry 41-42 Economics 1-2 (I) English 53, 54 French 1a-2a French 3, 4 (I) French 7, 8 (I) French 11, 12 (I) Geography 1, 2 German 1-2 (I) German 35 History 1-2 (I) History 5, 6 Italian 1-2 (I) Latin 3, 12r Latin 21, 22 Mathematics 31-32 *Music 131-132 Philosophy 2a Philosophy 61-62 Physics 31, 32 Psychology 1a (or 2a) Spanish 1a-2a (I) Spanish 9, 10
10	Chemistry 42a Chemistry 63, 64 Chemistry 145-146 Economics 1-2 (II) Economics 19, 20 †Education B01A, B02A (I) English A1, A2 (Ia, b, c) English 59, 60 English 67, 68 French 3, 4 (II) French 7, 8 (II) French 11, 12 (II) French 15, 16 French 19, 20 German 3, 4 (I) German 7, 8 Greek 11, 12 History 51, 52 Mathematics 7-8 (I) *Music 3, 4 Philosophy 1a Psychology 1b (or 2b) Psychology 21, 22 Spanish 13, 14	Chemistry 5-6 Economics 17, 18 English C2 (IV) English C5 (III) English 3, 4 English 39-40 English 69, 70 English 71, 72 French 3, 4 (V) French 7, 8 (III) French 11, 12 (IV) Geology 2r-1r German 3, 4 (III) German 9, 10 History 1-2 (IV) *History 105 Mathematics 2r Mathematics 21r Mathematics 23 Mathematics 32r Philosophy 1c (or 2c) Philosophy 45-46 Psychology 1d (or 2d) Psychology 27 Psychology 38 *Public Law 103, 104 Spanish 17-18 Zoölogy 151, 152	Chemistry 42a Chemistry 63, 64 Chemistry 145-146 Economics 1-2 (II) Economics 19, 20 †Education B01A, B02A (I) English A1, A2 (Ia, b, c) English 59, 60 English 67, 68 French 3, 4 (II) French 7, 8 (II) French 11, 12 (II) French 15, 16 French 19, 20 Geology 19, 20 German 3, 4 (I) German 7, 8 Greek 11, 12 History 51, 52 Mathematics 7-8 (I) *Music 3, 4 *Music 35-36 Philosophy 1a Psychology 1b (or 2b) Psychology 21, 22 Spanish 13, 14 Zoölogy 97-98
11	Anthropology 107, 108 Botany 51-52 Economics 2r-1r Economics 23 English C5 (I) English 23-24 English 63, 64 Fine Arts 1-2 French 17, 18 French 31, 32 German 1-2 (II) German 5, 6 Greek 21, 22 History 1-2 (II) History 9, 10 Hygiene A1 (I) Mathematics 1 (I) Mathematics 22 (I) Mathematics 133, 134 *Music 101-102 Philosophy 12 Physics 11-12 Sociology 1-2 Spanish 1a-2a (II) Spanish 1b, 2b (I)	Anthropology 6 *Astronomy 1, 2 Botany 153, 156 Classical Civilization 55 Economics 13, 14 English A1, A2 (IIIa, b, c) English 31, 32 English 41, 44 English 47, 48 English 73, 74 Fine Arts 37, 38 French 7, 8 (IV) French 21, 22 Geology 1-2 German 45, 46 Greek 25 History 7, 8 Hygiene A2 (II) Italian 3, 4 *Music 1-2 Philosophy 66 Psychology 19, 20 *Public Law 162 Religion 1, 2 Zoölogy 151, 152	Anthropology 107, 108 Botany 51-52 Economics 2r-1r Economics 23 English 23-24 English 63, 64 Fine Arts 1-2 French 17, 18 French 31, 32 German 1-2 (II) German 5, 6 Greek 21, 22 History 1-2 (II) History 9, 10 Hygiene A1 (I) Mathematics 1 (I) Mathematics 22 (I) Mathematics 133, 134 Mineralogy 1, 2 *Music 101-102 Philosophy 12 Philosophy 79 Physics 11-12 Sociology 1-2 Spanish 1a-2a (II) Spanish 1b, 2b (I)

Courses marked with an asterisk [*] are given at Columbia University:

ATTENDANCE

Hours	THURSDAY	FRIDAY	SATURDAY
9 A.M.	Botany 53-54 Economics 25, 28 English C2 (III) English C5 (II) English 61, 62 English 77, 78 French 1b, 2b (II) French 3, 4 (IV) German 1-2 (V) Government 7, 8 History 1-2 (III) Italian 13, 14 Latin 11, 12 (II) Latin 25, 26 Mathematics 7-8 (III) Mathematics 127, 128 Philosophy 1b (or 2b) Philosophy 41-42 Psychology 1c (or 2c) Psychology 117-118 Sociology 16 Spanish 7, 8 Zoölogy 151, 152	Chemistry 41-42 Economics 1-2 (I) English C2 (I) English 53 French 1a-2a French 3, 4 (I) Geography 1, 2 German 1-2 (I) German 35 History 1-2 (I) History 5, 6 Italian 1-2 (I) Latin 3, 12r Latin 21, 22 Mathematics 31-32 *Music 131-132 Philosophy 2a Philosophy 61-62 Physics 31, 32 Psychology 1a (or 2a) Spanish 1a-2a (I) Spanish 9, 10	French 1b, 2b (II) French 3, 4 (IV) German 1-2 (V) History 1-2 (III) Italian 13, 14 Latin 11, 12 (II) Mathematics 7-8 (III) Mathematics 127, 128 Philosophy 1b (or 2b) Psychology 1c (or 2c)
10	Chemistry 5-6 Economics 17, 18 English C2 (IV) English C5 (III) English 3, 4 English 39-40 English 89, 70 English 71, 72 French 3, 4 (V) French 7, 8 (III) French 11, 12 (IV) Geology 2r-1r German 3, 4 (III) German 9, 10 History 1-2 (IV) *History 105 Mathematics 2r Mathematics 21r Mathematics 23 Mathematics 32r Philosophy 1c (or 2c) Philosophy 45-46 Psychology 1d (or 2d) Psychology 27 Psychology 38 *Public Law 103, 104 Spanish 17-18 Zoölogy 151, 152	Chemistry 42a Chemistry 63, 64 Chemistry 145-146 Economics 1-2 (II) Economics 19, 20 Education B01A, B02A (I) English A1, A2 (Ia, b, c) English 59, 60 French 3, 4 (II) French 15, 16 French 19, 20 German 3, 4 (I) German 7, 8 Greek 11, 12 History 51, 52 Mathematics 7-8 (I) *Music 35-36 Philosophy 1a Psychology 1b (or 2b) Spanish 13, 14 Zoölogy 97-98	Chemistry 5-6 French 3, 4 (V) German 3, 4 (III) History 1-2 (IV) Mathematics 2r Mathematics 21r Mathematics 23 Mathematics 32r Philosophy 1c (or 2c) Psychology 1d (or 2d)
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those marked with a dagger [†] are given at Teachers College.

SCHEME OF

Hours	MONDAY	TUESDAY	WEDNESDAY
P.M. 1.10	Anthropology 3, 4 Botany 151-152 Chemistry 105, 106 Classical Civilization 52 †Education B01A, B02A (II) †Education 07A (I) English 21-22 English 57, 58 French 1b, 2b (I) French 5, 6 French 11, 12 (III) German 1-2 (III) German 3, 4 (II) German 28 Government 3, 4 History 17, 18 Hygiene A2 (I) Italian 1-2 (II) Latin 11, 12 (I) *Music 31-32 (I, II) Physics 35, 36 Psychology 7-8 (I) Religion 5, 6 Spanish 1b, 2b (II) Zoölogy 13, 14 Zoölogy 101, 102		Anthropology 3, 4 Chemistry 105, 106 Classical Civilization 52 †Education B01A, B02A (II) †Education 07A (I) English 21-22 English 57, 58 French 1b, 2b (I) French 5, 6 French 11, 12 (III) German 1-2 (III) German 3, 4 (II) German 28 Government 3, 4 History 17, 18 Hygiene A2 (I) Italian 1-2 (II) Latin 11, 12 (I) *Music 31-32 (I) Physics 35, 36 Psychology 7-8 (I) Religion 5, 6 Spanish 1b, 2b (II) Zoölogy 13, 14 Zoölogy 101, 102
2.10	Economics 1-2 (III, IV) Economics 21, 22 †Education 07A (II) †Education 135A-136A English A1, A2 (IIa, b, c) English A2r English C2 (II) English 2 English 91, 92 (I) Fine Arts 29, 30 *Fine Arts 101, 102 French 3, 4 (III) French 23, 24 German 1-2 (IV) German 22 Government 21, 24 Greek 1-2 History 19, 20 Italian 15-16 Mathematics 1 (II) Mathematics 7-8 (II) Mathematics 22 (II) Mathematics 30 Mathematics 33 Psychology 7-8 (I) Zoölogy 101, 102	*Economics 124 English 65, 66 English 91, 92 (II) Fine Arts 27, 28 *Fine Arts 150 French 27, 28 French 29, 30 Geology 5-6 Government 1, 2 Greek 1-2 History 11, 12 *History 156 Hygiene A1 (II) *Music 11-12 Philosophy 21-22 Psychology 7-8 (II) *Public Law 156 Religion 3, 4 Science of Language 1, 2 Spanish 15-16 Zoölogy 1-2	Economics 1-2 (III, IV) Economics 21, 22 †Education 07A (II) †Education 135A-136A English A1, A2 (IIa, b, c) English A2r English 2 Fine Arts 29, 30 French 3, 4 (III) French 23, 24 German 1-2 (IV) German 22 Government 21, 24 *Government 145, 146 Greek 1-2 History 19, 20 Italian 15-16 Mathematics 1 (II) Mathematics 7-8 (II) Mathematics 22 (II) Mathematics 30 Mathematics 33 Psychology 7-8 (I) Psychology 48 Psychology 107 Zoölogy 101, 102
3.10	English 15, 16 English 91, 92 (I) *Fine Arts 149 *French 113, 114 Italian 19, 20 Latin 19-20 Latin 29-30 Mathematics 31r Mathematics 34r Mathematics 45 Mathematics 56 Psychology 7-8 (I) *Russian 113, 114 Zoölogy 5-6 Zoölogy 101, 102	Botany 149 English 91, 92 (II) *Fine Arts 150 French 9, 10 History 164 Latin 41, 42 Psychology 7-8 (II) *Public Law 156 Sociology 53, 54 Spanish 155	English 15, 16 English 91, 92 (III) *Fine Arts 149 *French 113, 114 *Government 145, 146 Italian 19, 20 Mathematics 31r Mathematics 34r Mathematics 45 Mathematics 56 Psychology 7-8 (I) Psychology 48 Psychology 107 *Russian 113, 114 Zoölogy 5-6 Zoölogy 101, 102
4.10	*Music 31-32 (II) *Music 63-64	English 11, 12 *Fine Arts 183 (4-5:30) Geology 124 *Greek 101, 102 *Music 75-76 (4-5:30) Psychology 7-8 (II)	English 91, 92 (III) *Public Law 171-172
5.10	*Music 31-32 (II) *Music 63-64	English 11, 12 Spanish 153	*Public Law 171-172

Courses marked with an asterisk [*] are given at Columbia University;

ATTENDANCE

Hours	THURSDAY	FRIDAY	SATURDAY
P.M. 1.10	Chemistry 65, 66 French 9a, 10a French 11, 12 (I, II, III, IV) Geology 19, 20 German 15-16 Italian 11, 12 Latin 41, 42 Sociology 21, 22 Spanish 11-12	Anthropology 3, 4 Botany 151-152 Chemistry 5-6 Chemistry 105, 106 Classical Civilization 52 [†] Education B01A, B02A (II) [†] Education 07A (I) English 21-22 English 57, 58 French 1b, 2b (I) German 1-2 (III) German 3, 4 (II) Government 3, 4 History 17, 18 Italian 1-2 (II) Latin 11, 12 (I) [*] Music 31-32 (I) Physics 35, 36 Spanish 1b, 2b (II) Zoölogy 101, 102	
2.10	[*] Economics 124 English 65, 66 Fine Arts 27, 28 [*] Fine Arts 150 French 27, 28 French 29, 30 Geology 5-6 Government 1, 2 [*] Government 105-106 Greek 1-2 History 11, 12 [*] History 156 Hygiene A1 (II) [*] Music 11-12 Philosophy 21-22 Psychology 7-8 (II) Religion 3, 4 Science of Language 1, 2 Sociology 21, 22 Spanish 15-16 Zoölogy 1-2	Economics 1-2 (III, IV) Economics 21, 22 [†] Education 07A (II) [†] Education 135A-136A English A1, A2 (IIa, b, c) English A2r English C2 (II) English 91, 92 (V) [*] Fine Arts 101, 102 French 3, 4 (III) French 23, 24 German 1-2 (IV) Government 21, 24 Greek 1-2 Italian 15-16 Mathematics 1 (II) Mathematics 7-8 (II) Mathematics 22 (II) Mathematics 30 Mathematics 33 Zoölogy 101, 102	
3.10	Botany 149 English 91, 92 (IV) [*] Fine Arts 150 French 9, 10 [*] Government 105-106 History 164 Latin 41, 42 Psychology 7-8 (II) Sociology 53, 54 Spanish 155	English 91, 92 (V) [*] Fine Arts 149 Italian 19, 20 Mathematics 31r Mathematics 34r Mathematics 45 Mathematics 56 Zoölogy 101, 102	
4.10	English 91, 92 (IV) [*] Fine Arts 183 (4-5:30) Geology 124 [*] Greek 101, 102 Psychology 7-8 (II)	English C1	
5.10	Spanish 153		

those marked with a dagger [†] are given at Teachers College.

ACADEMIC CALENDAR

1930-1931

1930

- July 7 — Monday. Thirty-first Summer Session of Columbia University begins.
- Aug. 15 — Friday. Thirty-first Summer Session of Columbia University ends.
- Sept. 8 — Monday. Last day for filing applications for entrance and deficiency examinations, and for advanced standing. The privilege of later application may be granted on payment of a fee of \$5.
- Sept. 15 — Monday. Entrance examinations and examinations for deficient students begin.
- Sept. 19 — Friday. Registration (including the payment of fees) begins.
- Sept. 23 — Tuesday. Registration ceases for Barnard students previously matriculated.
- The privilege of later registration may be granted on payment of a fee of \$5.
- Sept. 24 — Wednesday. Winter Session, forty-second year, begins.
- Registration ceases for students matriculating for the first time.
- The privilege of later registration may be granted on payment of a fee of \$5.
- Sept. 25 — Thursday. Classes begin.
- Oct. 21 — Tuesday. Stated meeting of University Council.
- Nov. 4 — Tuesday. Election Day, holiday.
- Nov. 25 — Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
- Nov. 27 — Thursday
to
- Nov. 29 — Saturday, inclusive. Thanksgiving holidays.
- Dec. 16 — Tuesday. Stated meeting of University Council.
- Dec. 22 — Monday
to

1931

- Jan. 4 — Sunday, inclusive. Christmas holidays.
- Jan. 11 — Sunday. Annual Commemoration Service in St. Paul's Chapel.
- Jan. 21 — Wednesday. Mid-year examinations begin.
- Feb. 3 — Tuesday. Winter Session ends.
- Registration for Barnard students entering the Spring Session.
- The privilege of later registration may be granted on payment of a fee of \$5.
- Feb. 4 — Wednesday. Spring Session begins. Classes begin.
- Feb. 12 — Thursday. Alumnae Day.
- Feb. 17 — Tuesday. Stated meeting of University Council.

- Feb. 23 — Monday. Washington's Birthday, holiday.
- Mch. 2 — Monday. Last day for filing applications for non-competitive scholarships.
- Apr. 2 — Thursday
to
- Apr. 6 — Monday, inclusive. Easter holidays.
- Apr. 21 — Tuesday. Stated meeting of University Council.
- May 18 — Monday. Final examinations begin.
- May 30 — Saturday. Memorial Day, holiday.
- May 31 — Sunday. Baccalaureate service.
- June 2 — Tuesday. Conferring of degrees.
- June 10 — Wednesday. Spring Session ends.
- June 15 — Monday. Examinations of the College Entrance Examination Board begin. The dates for filing applications are contained in a circular issued by the Board, 431 West 117th Street, New York, N. Y.
- July 6 — Monday. Thirty-second Summer Session of Columbia University begins.
- Aug. 14 — Friday. Thirty-second Summer Session of Columbia University ends.
- Sept. 7 — Monday. Last day for filing applications for entrance or deficiency examinations, and for advanced standing. The privilege of later application may be granted on payment of a fee of \$5.
- Sept. 14 — Monday. Entrance examinations and examinations for deficient students begin.
- Sept. 18 — Friday. Registration (including the payment of fees) begins.
- Sept. 22 — Tuesday. Registration ceases for Barnard students previously matriculated.
The privilege of later registration may be granted on payment of a fee of \$5.
- Sept. 23 — Wednesday. Winter Session, forty-third year, begins.
Registration ceases for students matriculating for the first time. The privilege of later registration may be granted on payment of a fee of \$5.

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